

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 71

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 12.09.2018  |
| 2.0     | 30.06.2023     | 400001008962 | Date of first issue: 07.12.2015 |

Print Date 01.07.2024

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : ARALDITE® 71

Unique Formula Identifier (UFI) : H7RN-30Q8-9000-Q3NP

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Adhesives

#### 1.3 Details of the supplier of the safety data sheet

Company : Huntsman Advanced Materials (Europe) BV

Address : Everslaan 45  
3078 Everberg  
Belgium

Telephone : +41 61 299 20 41

Telefax : +41 61 299 20 40

E-mail address of person responsible for the SDS : Global\_Product\_EHS\_AdMat@huntsman.com

#### 1.4 Emergency telephone number

Emergency telephone number : Centres Antipoison et de Toxicovigilance:

ANGERS: 02 41 48 21 21

BORDEAUX: 05 56 96 40 80

LILLE: 0 825 812 822

LYON: 04 72 11 69 11

MARSEILLE 04 91 75 25 25

NANCY: 03 83 32 36 36

PARIS: 01 40 05 48 48

RENNES: 02 99 59 22 22

STRASBOURG: 03 88 37 37 37

TOULOUSE: 05 61 77 74 47

EUROPE: +32 35 75 1234

France ORFILA: +33(0)145425959

ASIA: +65 6336-6011

China: +86 20 39377888  
+86 532 83889090

India: + 91 22 42 87 5333

Australia: 1800 786 152

New Zealand: 0800 767 437

USA: +1 800-424-9300

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

|                                                |                                                          |
|------------------------------------------------|----------------------------------------------------------|
| Flammable liquids, Category 2                  | H225: Highly flammable liquid and vapour.                |
| Acute toxicity, Category 4                     | H302: Harmful if swallowed.                              |
| Skin corrosion, Sub-category 1B                | H314: Causes severe skin burns and eye damage.           |
| Serious eye damage, Category 1                 | H318: Causes serious eye damage.                         |
| Skin sensitisation, Category 1                 | H317: May cause an allergic skin reaction.               |
| Germ cell mutagenicity, Category 2             | H341: Suspected of causing genetic defects.              |
| Carcinogenicity, Category 1B                   | H350: May cause cancer.                                  |
| Long-term (chronic) aquatic hazard, Category 3 | H412: Harmful to aquatic life with long lasting effects. |

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

|      |                                                    |
|------|----------------------------------------------------|
| H225 | Highly flammable liquid and vapour.                |
| H302 | Harmful if swallowed.                              |
| H314 | Causes severe skin burns and eye damage.           |
| H317 | May cause an allergic skin reaction.               |
| H341 | Suspected of causing genetic defects.              |
| H350 | May cause cancer.                                  |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary statements :

**Prevention:**

P201 Obtain special instructions before use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

#### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously

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with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

### Hazardous components which must be listed on the label:

Formaldehyde, oligomeric reaction products with phenol  
phenol  
methanol  
formaldehyde

### Additional Labelling

Restricted to professional users.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

| Chemical name                                             | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number     | Classification                                                                                                                                                    | Concentration<br>(% w/w) |
|-----------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| ethanol                                                   | 64-17-5<br>200-578-6<br>603-002-00-5                      | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319                                                                                                                          | >= 30 -<br>< 50          |
| Formaldehyde, oligomeric<br>reaction products with phenol | 9003-35-4<br>Polymer                                      | Skin Sens. 1; H317                                                                                                                                                | >= 30 -<br>< 50          |
| phenol                                                    | 108-95-2<br>203-632-7<br>604-001-00-2<br>01-2119471329-32 | Acute Tox. 3; H301<br>Acute Tox. 3; H331<br>Acute Tox. 3; H311<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>Muta. 2; H341<br>STOT RE 2; H373<br>(Central nervous | >= 3 - <<br>5            |

# SAFETY DATA SHEET

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|                                                                         |                                                          |                                                                                                                                                                                                                                                                                                                                                                                  |                |
|-------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
|                                                                         |                                                          | system)<br>Aquatic Chronic 2;<br>H411<br><br>specific concentration<br>limit<br>Skin Corr. 1B; H314<br>≥ 3 %<br>Skin Irrit. 2; H315<br>1 - < 3 %<br>Eye Irrit. 2; H319<br>1 - < 3 %                                                                                                                                                                                              |                |
| methanol                                                                | 67-56-1<br>200-659-6<br>603-001-00-X<br>01-2119433307-44 | Flam. Liq. 2; H225<br>Acute Tox. 3; H301<br>Acute Tox. 3; H331<br>Acute Tox. 3; H311<br>STOT SE 1; H370<br>(Bladder, Blood,<br>Central nervous<br>system, Eyes, Kidney,<br>Liver, Nervous system,<br>spleen)<br><br>specific concentration<br>limit<br>STOT SE 1; H370<br>≥ 10 %<br>STOT SE 2; H371<br>3 - < 10 %                                                                | ≥ 1 - <<br>3   |
| formaldehyde                                                            | 50-00-0<br>200-001-8<br>605-001-00-5<br>01-2119488953-20 | Acute Tox. 3; H301<br>Acute Tox. 3; H331<br>Acute Tox. 3; H311<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>Skin Sens. 1; H317<br>Muta. 2; H341<br>Carc. 1B; H350<br><br>specific concentration<br>limit<br>Skin Corr. 1B; H314<br>≥ 25 %<br>Skin Irrit. 2; H315<br>5 - < 25 %<br>Eye Irrit. 2; H319<br>5 - < 25 %<br>STOT SE 3; H335<br>≥ 5 %<br>Skin Sens. 1; H317<br>≥ 0,2 % | ≥ 0,2 -<br>< 1 |
| Substances with a workplace exposure limit :                            |                                                          |                                                                                                                                                                                                                                                                                                                                                                                  |                |
| Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> ) | 14807-96-6                                               |                                                                                                                                                                                                                                                                                                                                                                                  | ≥ 1 - <        |

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|  |                  |  |    |
|--|------------------|--|----|
|  | 238-877-9        |  | 10 |
|  | 01-2120140278-58 |  |    |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice             | : Move out of dangerous area.<br>Consult a physician.<br>Show this safety data sheet to the doctor in attendance.<br>Treat symptomatically.<br>Get medical attention if symptoms occur.                                                                                                                                                                                                                                                                     |
| Protection of first-aiders | : First Aid responders should pay attention to self-protection and use the recommended protective clothing<br>If potential for exposure exists refer to Section 8 for specific personal protective equipment.<br>Avoid inhalation, ingestion and contact with skin and eyes.<br>No action shall be taken involving any personal risk or without suitable training.<br>It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |
| If inhaled                 | : If inhaled, remove to fresh air.<br>Get medical attention if symptoms occur.                                                                                                                                                                                                                                                                                                                                                                              |
| In case of skin contact    | : If skin irritation persists, call a physician.<br>If on skin, rinse well with water.<br>If on clothes, remove clothes.                                                                                                                                                                                                                                                                                                                                    |
| In case of eye contact     | : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.<br>In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.<br>Continue rinsing eyes during transport to hospital.<br>Remove contact lenses.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.                                                                                      |
| If swallowed               | : Keep respiratory tract clear.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital.                                                                                                                                                                                                                                                                                 |

### 4.2 Most important symptoms and effects, both acute and delayed

None known.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : Exercise caution when using a high volume water jet as it may scatter and spread fire

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Halogenated compounds

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Refer to protective measures listed in sections 7 and 8.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform

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respective authorities.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

For disposal considerations see section 13., See Section 1 for emergency contact information., For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Technical measures : Ensure that eyewash stations and safety showers are close to the workstation location.

Local/Total ventilation : Ensure adequate ventilation.

Advice on safe handling : Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation of susceptible persons. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Open drum carefully as content may be under pressure.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Keep in properly labelled containers.

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Advice on common storage : For incompatible materials please refer to Section 10 of this SDS.

Further information on storage stability : Stable under normal conditions.

Recommended storage temperature : 2 - 40 °C

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components          | CAS-No.                                                                                                                   | Value type (Form of exposure) | Control parameters       | Basis       |
|---------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------|-------------|
| ethanol             | 64-17-5                                                                                                                   | VME                           | 1 000 ppm<br>1 900 mg/m3 | FR VLE      |
| Further information | Indicative exposure limits                                                                                                |                               |                          |             |
|                     |                                                                                                                           | VLCT (VLE)                    | 5 000 ppm<br>9 500 mg/m3 | FR VLE      |
| Further information | Indicative exposure limits                                                                                                |                               |                          |             |
| Talc (Mg3H2(SiO3)4) | 14807-96-6                                                                                                                | TWA (Respirable dust)         | 0,1 mg/m3                | 2004/37/EC  |
| Further information | Carcinogens or mutagens                                                                                                   |                               |                          |             |
| phenol              | 108-95-2                                                                                                                  | TWA                           | 2 ppm<br>8 mg/m3         | 2009/161/EU |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative                                             |                               |                          |             |
|                     |                                                                                                                           | STEL                          | 4 ppm<br>16 mg/m3        | 2009/161/EU |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative                                             |                               |                          |             |
|                     |                                                                                                                           | VLCT (VLE)                    | 4 ppm<br>15,6 mg/m3      | FR VLE      |
| Further information | Mutagenic category 2 - Possibly mutagenic to humans, Risk of penetration through skin, Regulatory binding exposure limits |                               |                          |             |
|                     |                                                                                                                           | VME                           | 2 ppm<br>7,8 mg/m3       | FR VLE      |
| Further information | Mutagenic category 2 - Possibly mutagenic to humans, Risk of penetration through skin, Regulatory binding exposure limits |                               |                          |             |
| methanol            | 67-56-1                                                                                                                   | TWA                           | 200 ppm<br>260 mg/m3     | 2006/15/EC  |
| Further information | Indicative, Identifies the possibility of significant uptake through the skin                                             |                               |                          |             |
|                     |                                                                                                                           | VME                           | 200 ppm<br>260 mg/m3     | FR VLE      |
| Further information | Risk of penetration through skin, Regulatory binding exposure limits                                                      |                               |                          |             |
|                     |                                                                                                                           | VLCT (VLE)                    | 1 000 ppm                | FR VLE      |

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|                     |                                                                                                                                                                         |            |                       |            |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------|------------|
|                     |                                                                                                                                                                         |            | 1 300 mg/m3           |            |
| Further information | Risk of penetration through skin, Indicative exposure limits                                                                                                            |            |                       |            |
| formaldehyde        | 50-00-0                                                                                                                                                                 | VME        | 0,3 ppm<br>0,37 mg/m3 | FR VLE     |
| Further information | Carcinogenic category 1B - Probably carcinogenic to humans, Mutagenic category 2 - Possibly mutagenic to humans, Skin sensitisation, Regulatory binding exposure limits |            |                       |            |
|                     |                                                                                                                                                                         | VLCT (VLE) | 0,6 ppm<br>0,74 mg/m3 | FR VLE     |
| Further information | Carcinogenic category 1B - Probably carcinogenic to humans, Mutagenic category 2 - Possibly mutagenic to humans, Skin sensitisation, Regulatory binding exposure limits |            |                       |            |
|                     |                                                                                                                                                                         | STEL       | 0,6 ppm<br>0,74 mg/m3 | 2004/37/EC |
| Further information | Dermal sensitisation, Carcinogens or mutagens                                                                                                                           |            |                       |            |
|                     |                                                                                                                                                                         | TWA        | 0,3 ppm<br>0,37 mg/m3 | 2004/37/EC |
| Further information | Dermal sensitisation, Carcinogens or mutagens                                                                                                                           |            |                       |            |

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use   | Exposure routes | Potential health effects              | Value           |
|----------------|-----------|-----------------|---------------------------------------|-----------------|
| methanol       | Workers   | Dermal          | Systemic effects, Long-term exposure  | 40 mg/kg bw/day |
|                | Workers   | Inhalation      | Systemic effects, Long-term exposure  | 260 mg/m3       |
|                | Workers   | Inhalation      | Local effects, Long-term exposure     | 260 mg/m3       |
|                | Workers   | Dermal          | Systemic effects, Short-term exposure | 40 mg/kg bw/day |
|                | Workers   | Inhalation      | Systemic effects, Short-term exposure | 260 mg/m3       |
|                | Workers   | Inhalation      | Local effects, Short-term exposure    | 260 mg/m3       |
|                | Consumers | Dermal          | Systemic effects, Long-term exposure  | 8 mg/kg bw/day  |
|                | Consumers | Inhalation      | Systemic effects, Long-term exposure  | 50 mg/m3        |
|                | Consumers | Oral            | Systemic effects, Long-term exposure  | 8 mg/kg bw/day  |
|                | Consumers | Inhalation      | Local effects, Long-term exposure     | 50 mg/m3        |
|                | Consumers | Inhalation      | Systemic effects, Short-term exposure | 50 mg/m3        |
|                | Consumers | Inhalation      | Local effects, Short-term exposure    | 50 mg/m3        |
| phenol         | Workers   | Dermal          | Systemic effects, Short-term exposure | 8 mg/kg bw/day  |
|                | Workers   | Oral            | Systemic effects, Short-term exposure | 8 mg/kg bw/day  |
|                | Workers   | Inhalation      | Long-term systemic effects            | 8 mg/m3         |
|                | Workers   | Inhalation      | Acute local effects                   | 16 mg/m3        |
|                | Workers   | Dermal          | Long-term systemic                    | 1,23 mg/kg      |

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|                    |           |            | effects                               | bw/day           |
|--------------------|-----------|------------|---------------------------------------|------------------|
|                    | Consumers | Inhalation | Long-term systemic effects            | 1,32 mg/m3       |
|                    | Consumers | Dermal     | Long-term systemic effects            | 0,4 mg/kg bw/day |
|                    | Consumers | Oral       | Long-term systemic effects            | 0,4 mg/kg bw/day |
| methanol           | Workers   | Dermal     | Systemic effects, Long-term exposure  | 40 mg/kg bw/day  |
|                    | Workers   | Inhalation | Systemic effects, Long-term exposure  | 260 mg/m3        |
|                    | Workers   | Inhalation | Local effects, Long-term exposure     | 260 mg/m3        |
|                    | Workers   | Dermal     | Systemic effects, Short-term exposure | 40 mg/kg bw/day  |
|                    | Workers   | Inhalation | Systemic effects, Short-term exposure | 260 mg/m3        |
|                    | Workers   | Inhalation | Local effects, Short-term exposure    | 260 mg/m3        |
|                    | Consumers | Dermal     | Systemic effects, Long-term exposure  | 8 mg/kg bw/day   |
|                    | Consumers | Inhalation | Systemic effects, Long-term exposure  | 50 mg/m3         |
|                    | Consumers | Oral       | Systemic effects, Long-term exposure  | 8 mg/kg bw/day   |
|                    | Consumers | Inhalation | Local effects, Long-term exposure     | 50 mg/m3         |
|                    | Consumers | Inhalation | Systemic effects, Short-term exposure | 50 mg/m3         |
|                    | Consumers | Inhalation | Local effects, Short-term exposure    | 50 mg/m3         |
|                    | Consumers | Dermal     | Systemic effects, Short-term exposure | 8 mg/kg bw/day   |
|                    | Consumers | Oral       | Systemic effects, Short-term exposure | 8 mg/kg bw/day   |
| ethanol            | Consumers | Inhalation | Long-term systemic effects            | 950 mg/m3        |
|                    | Consumers | Dermal     | Short-term exposure, Local effects    | 950 mg/m3        |
|                    | Consumers | Inhalation | Long-term systemic effects            | 114 mg/m3        |
|                    | Consumers | Oral       | Long-term systemic effects            | 87 mg/kg         |
|                    | Consumers | Dermal     | Long-term systemic effects            | 206 mg/kg bw/day |
|                    | Workers   | Inhalation | Short-term exposure, Local effects    | 1900 mg/m3       |
|                    | Workers   | Inhalation | Short-term exposure, Local effects    | 950 mg/m3        |
|                    | Workers   | Dermal     | Long-term systemic effects            | 343 mg/kg bw/day |
| Silicon, amorphous | Workers   | Inhalation | Long-term systemic effects            | 4 mg/m3          |
| phenol             | Workers   | Inhalation | Long-term systemic                    | 8 mg/m3          |

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|  |           |            | effects                    |                   |
|--|-----------|------------|----------------------------|-------------------|
|  | Workers   | Inhalation | Acute local effects        | 16 mg/m3          |
|  | Workers   | Dermal     | Long-term systemic effects | 1,23 mg/kg bw/day |
|  | Consumers | Inhalation | Long-term systemic effects | 1,32 mg/m3        |
|  | Consumers | Dermal     | Long-term systemic effects | 0,4 mg/kg bw/day  |
|  | Consumers | Oral       | Long-term systemic effects | 0,4 mg/kg bw/day  |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment  | Value                          |
|----------------|----------------------------|--------------------------------|
| methanol       | Fresh water                | 154 mg/l                       |
|                | Remarks:Assessment Factors |                                |
|                | Marine water               | 15,4 mg/l                      |
|                | Remarks:Assessment Factors |                                |
|                | Freshwater - intermittent  | 1540 mg/l                      |
|                | Remarks:Assessment Factors |                                |
|                | Sediment                   | 570,4 mg/kg                    |
|                | Remarks:Equilibrium method |                                |
|                | Secondary Poisoning        |                                |
|                | Sewage treatment plant     | 100 mg/l                       |
| ethanol        | Remarks:Assessment Factors |                                |
|                | Soil                       | 23,5 mg/kg                     |
|                | Remarks:Equilibrium method |                                |
|                | Fresh water                | 0,96 mg/l                      |
|                | Marine water               | 0,79 mg/l                      |
|                | Intermittent use/release   | 2,75 mg/l                      |
|                | Sewage treatment plant     | 580 mg/l                       |
|                | Fresh water sediment       | 3,6 mg/kg                      |
|                | Soil                       | 0,63 mg/kg dry weight (d.w.)   |
|                | Oral                       | 0,72 mg/kg                     |
| phenol         | Marine sediment            | 2,9 mg/kg dry weight (d.w.)    |
|                | Fresh water                | 0,0077 mg/l                    |
|                | Marine water               | 0,0008 mg/l                    |
|                | Freshwater - intermittent  | 0,031 mg/l                     |
|                | Sewage treatment plant     | 2,1 mg/l                       |
|                | Fresh water sediment       | 0,0915 mg/kg dry weight (d.w.) |
|                | Marine sediment            | 0,0092 mg/kg dry weight (d.w.) |
|                | Soil                       | 0,136 mg/kg dry weight (d.w.)  |

## 8.2 Exposure controls

### Personal protective equipment

Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue:             |
| 2.0     | 30.06.2023     | 400001008962 | 12.09.2018                      |
|         |                |              | Date of first issue: 07.12.2015 |

Print Date 01.07.2024

|                          |                                                                                                                                                                                                                          |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hand protection          |                                                                                                                                                                                                                          |
| Material                 | : butyl-rubber                                                                                                                                                                                                           |
| Material                 | : Ethyl Vinyl Alcohol Laminate (EVAL)                                                                                                                                                                                    |
| Break through time       | : > 8 h                                                                                                                                                                                                                  |
| Material                 | : Nitrile rubber                                                                                                                                                                                                         |
| Break through time       | : 10 - 480 min                                                                                                                                                                                                           |
| Remarks                  | : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).                                      |
| Skin and body protection | : Impervious clothing<br>Choose body protection according to the amount and concentration of the dangerous substance at the work place.                                                                                  |
| Respiratory protection   | : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines<br>Equipment should conform to EN 14387 |
| Filter type              | : Organic gas and low boiling vapour type (AX)                                                                                                                                                                           |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                  |                                                 |
|--------------------------------------------------|-------------------------------------------------|
| Physical state                                   | : paste                                         |
| Colour                                           | : dark red                                      |
| Odour                                            | : No data is available on the product itself.   |
| Odour Threshold                                  | : No data is available on the product itself.   |
| pH                                               | : substance/mixture is non-soluble (in water)   |
| Melting point/freezing point                     | : No data is available on the product itself.   |
| Boiling point                                    | : > 78 °C                                       |
| Flash point                                      | : 13 °C<br>Method: DIN 51755 Part 1, closed cup |
| Flammability (solid, gas)                        | : No data is available on the product itself.   |
| Upper explosion limit / Upper flammability limit | : No data is available on the product itself.   |
| Lower explosion limit / Lower flammability limit | : No data is available on the product itself.   |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

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## ARALDITE® 71

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 12.09.2018  |
| 2.0     | 30.06.2023     | 400001008962 | Date of first issue: 07.12.2015 |

Print Date 01.07.2024

Vapour pressure : No data is available on the product itself.

Relative vapour density : No data is available on the product itself.

Relative density : No data is available on the product itself.

Density : 1 g/cm<sup>3</sup> (25 °C)

Solubility(ies)  
Water solubility : insoluble (20 °C)

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-octanol/water : No data is available on the product itself.

Auto-ignition temperature : 360 °C

Decomposition temperature : > 200 °C

Viscosity  
Viscosity, dynamic : 530 - 790 mPa.s (25 °C)

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : None known.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : carbon monoxide  
carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)  
Halogenated compounds

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

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## ARALDITE® 71

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 12.09.2018  |
| 2.0     | 30.06.2023     | 400001008962 | Date of first issue: 07.12.2015 |

Print Date 01.07.2024

### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Acute toxicity

###### Product:

|                           |   |                                                                                                                   |
|---------------------------|---|-------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : | Acute toxicity estimate: 1 868 mg/kg<br>Method: Calculation method                                                |
| Acute inhalation toxicity | : | Acute toxicity estimate: > 20 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour<br>Method: Calculation method |
| Acute dermal toxicity     | : | Acute toxicity estimate: > 2 000 mg/kg<br>Method: Calculation method                                              |

###### Components:

###### **ethanol:**

|                           |   |                                                                                                                                                                                                                         |
|---------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : | LD50 (Rat, male and female): 10 470 mg/kg<br>Method: OECD Test Guideline 401                                                                                                                                            |
| Acute inhalation toxicity | : | LC50 (Rat, male and female): 116,9 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour<br>Method: OECD Test Guideline 403<br><br>LC50 (Rat): 95,6 - 125 mg/l<br>Exposure time: 4 h<br>Method: OECD Test Guideline 403 |
| Acute dermal toxicity     | : | LD50 (Rabbit): > 2 000 mg/kg<br>Method: OECD Test Guideline 402                                                                                                                                                         |

###### **Formaldehyde, oligomeric reaction products with phenol:**

|                       |   |                                                                                                |
|-----------------------|---|------------------------------------------------------------------------------------------------|
| Acute oral toxicity   | : | LD50 (Rat): > 5 000 mg/kg                                                                      |
| Acute dermal toxicity | : | LD50 (Rat): > 2 000 mg/kg<br>Assessment: The substance or mixture has no acute dermal toxicity |

###### **phenol:**

|                           |   |                                                                                                                                                       |
|---------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : | LD50 (Rat, male and female): 340 - 540 mg/kg<br>Method: OECD Test Guideline 401<br>Assessment: The component/mixture is toxic after single ingestion. |
| Acute inhalation toxicity | : | LC50 (Rat): 0,316 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour                                                                               |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

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## ARALDITE® 71

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 12.09.2018  |
| 2.0     | 30.06.2023     | 400001008962 | Date of first issue: 07.12.2015 |

Print Date 01.07.2024

LC50 (Rat, female): > 900 mg/m<sup>3</sup>  
Exposure time: 8 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rat, female): 660 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The component/mixture is toxic after single contact with skin.

### methanol:

Acute oral toxicity : LD50 (Rat): 5 628 mg/kg  
Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat, male and female): 128,2 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Other guidelines  
Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rabbit): 15 800 mg/kg  
Assessment: The component/mixture is toxic after single contact with skin.

### formaldehyde:

Acute oral toxicity : LD50 (Rat, male): 800 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The component/mixture is toxic after single ingestion.

LD50 (Rat, male): 460 - 830 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat): 0,35 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rabbit): 270 mg/kg  
Assessment: The component/mixture is toxic after single contact with skin.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

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## ARALDITE® 71

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 12.09.2018  |
| 2.0     | 30.06.2023     | 400001008962 | Date of first issue: 07.12.2015 |

Print Date 01.07.2024

### Skin corrosion/irritation

#### Components:

##### **ethanol:**

|            |                           |
|------------|---------------------------|
| Species    | : Rabbit                  |
| Assessment | : No skin irritation      |
| Method     | : OECD Test Guideline 404 |
| Result     | : No skin irritation      |

##### **phenol:**

|         |                           |
|---------|---------------------------|
| Species | : Rabbit                  |
| Method  | : OECD Test Guideline 404 |
| Result  | : Causes burns.           |

##### **methanol:**

|            |                      |
|------------|----------------------|
| Species    | : Rabbit             |
| Assessment | : No skin irritation |
| Method     | : Other guidelines   |
| Result     | : No skin irritation |

##### **formaldehyde:**

|            |                                                   |
|------------|---------------------------------------------------|
| Species    | : Rabbit                                          |
| Assessment | : Causes burns.                                   |
| Method     | : OECD Test Guideline 404                         |
| Result     | : Corrosive after 3 minutes to 1 hour of exposure |

### Serious eye damage/eye irritation

#### Components:

##### **ethanol:**

|            |                           |
|------------|---------------------------|
| Species    | : Rabbit                  |
| Assessment | : Mild eye irritant       |
| Method     | : OECD Test Guideline 405 |
| Result     | : Mild eye irritant       |

##### **phenol:**

|         |                                   |
|---------|-----------------------------------|
| Species | : Rabbit                          |
| Method  | : OECD Test Guideline 405         |
| Result  | : Risk of serious damage to eyes. |

##### **methanol:**

|         |                     |
|---------|---------------------|
| Species | : Rabbit            |
| Result  | : No eye irritation |

##### **formaldehyde:**

|            |                                   |
|------------|-----------------------------------|
| Species    | : Rat                             |
| Assessment | : Risk of serious damage to eyes. |
| Result     | : Corrosive                       |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

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## ARALDITE® 71

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 12.09.2018  |
| 2.0     | 30.06.2023     | 400001008962 | Date of first issue: 07.12.2015 |

Print Date 01.07.2024

### Respiratory or skin sensitisation

#### Components:

##### **Formaldehyde, oligomeric reaction products with phenol:**

|                 |                                            |
|-----------------|--------------------------------------------|
| Exposure routes | : Skin                                     |
| Species         | : Humans                                   |
| Assessment      | : May cause sensitisation by skin contact. |
| Result          | : May cause sensitisation by skin contact. |

##### **phenol:**

|                 |                                      |
|-----------------|--------------------------------------|
| Exposure routes | : Skin                               |
| Species         | : Guinea pig                         |
| Method          | : OECD Test Guideline 406            |
| Result          | : Does not cause skin sensitisation. |

##### **methanol:**

|                 |                                      |
|-----------------|--------------------------------------|
| Exposure routes | : Skin                               |
| Species         | : Guinea pig                         |
| Method          | : OECD Test Guideline 406            |
| Result          | : Does not cause skin sensitisation. |

##### **formaldehyde:**

|                 |                                            |
|-----------------|--------------------------------------------|
| Exposure routes | : Skin                                     |
| Species         | : Guinea pig                               |
| Method          | : OECD Test Guideline 406                  |
| Result          | : May cause sensitisation by skin contact. |

|            |                                            |
|------------|--------------------------------------------|
| Assessment | : May cause sensitisation by skin contact. |
|------------|--------------------------------------------|

### Germ cell mutagenicity

#### Components:

##### **ethanol:**

|                       |                                                                                                                                                                                                                                                  |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vitro | : Test Type: In vitro mammalian cell gene mutation test<br>Test system: mouse lymphoma cells<br>Concentration: 33.99 mg/ml<br>Metabolic activation: with and without metabolic activation<br>Method: OECD Test Guideline 476<br>Result: negative |
|                       | Test Type: reverse mutation assay<br>Test system: Salmonella typhimurium<br>Concentration: 10 mg/plate<br>Metabolic activation: with and without metabolic activation<br>Method: OECD Test Guideline 471<br>Result: negative                     |

##### **phenol:**

|                                       |                                           |
|---------------------------------------|-------------------------------------------|
| Germ cell mutagenicity-<br>Assessment | : In vitro tests showed mutagenic effects |
|---------------------------------------|-------------------------------------------|

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

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## ARALDITE® 71

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 12.09.2018  |
| 2.0     | 30.06.2023     | 400001008962 | Date of first issue: 07.12.2015 |

Print Date 01.07.2024

### methanol:

Genotoxicity in vitro : Concentration: 15.8 - 63.3 mg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Concentration: 5 - 5000 ug/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Concentration: ca 40 mg/ml  
Metabolic activation: negative  
Result: negative

Genotoxicity in vivo : Application Route: Intraperitoneal injection  
Dose: 1920 - 4480 mg/kg  
Method: OECD Test Guideline 474  
Result: negative

### formaldehyde:

Genotoxicity in vitro : Result: positive

Concentration: 60 ug/plate  
Metabolic activation: negative  
Method: OECD Test Guideline 471  
Result: positive

Genotoxicity in vivo : Cell type: Germ + somatic  
Result: Positive results were obtained in some in vivo tests.

Germ cell mutagenicity-Assessment : Positive result(s) from in vivo non-mammalian somatic cell mutagenicity tests, supported by positive results from in vitro mutagenicity assays.

### Carcinogenicity

#### Components:

#### ethanol:

Species : Rat  
NOAEL : > 3 000 mg/kg body weight  
Method : OECD Test Guideline 451

#### phenol:

Species : Mouse, male and female  
Application Route : Oral  
Exposure time : 103 weeks  
Dose : 5000 ppm  
Method : OECD Test Guideline 451  
Result : negative

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

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## ARALDITE® 71

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 12.09.2018  |
| 2.0     | 30.06.2023     | 400001008962 | Date of first issue: 07.12.2015 |

Print Date 01.07.2024

### methanol:

|                        |                              |
|------------------------|------------------------------|
| Species                | : Rat, male and female       |
| Application Route      | : Inhalation                 |
| Exposure time          | : 24 month(s)                |
| Dose                   | : $\geq 1300 \text{ mg/m}^3$ |
| Frequency of Treatment | : 20 hour                    |
| Method                 | : OECD Test Guideline 453    |
| Result                 | : negative                   |

|                        |                             |
|------------------------|-----------------------------|
| Species                | : Mouse, male and female    |
| Application Route      | : Inhalation                |
| Exposure time          | : 18 month(s)               |
| Dose                   | : 13 - 1300 $\text{mg/m}^3$ |
| Frequency of Treatment | : 19 hour                   |
| Method                 | : OECD Test Guideline 453   |
| Result                 | : negative                  |

### formaldehyde:

|                        |               |
|------------------------|---------------|
| Species                | : Rat, male   |
| Application Route      | : Inhalation  |
| Exposure time          | : 24 month(s) |
| Dose                   | : 6 ppm       |
| Frequency of Treatment | : 6 hour      |
| Result                 | : positive    |

|                              |                                                                             |
|------------------------------|-----------------------------------------------------------------------------|
| Carcinogenicity - Assessment | : Sufficient evidence of carcinogenicity in inhalation studies with animals |
|------------------------------|-----------------------------------------------------------------------------|

### Reproductive toxicity

#### Components:

##### ethanol:

|                      |                                                                                |
|----------------------|--------------------------------------------------------------------------------|
| Effects on fertility | :<br>Species: Rat<br>General Toxicity - Parent: NOAEL: 5 200 mg/kg body weight |
|----------------------|--------------------------------------------------------------------------------|

|                               |                                                                                             |
|-------------------------------|---------------------------------------------------------------------------------------------|
| Effects on foetal development | : Species: Mouse, male and female<br>Application Route: Oral<br>Result: Teratogenic effects |
|-------------------------------|---------------------------------------------------------------------------------------------|

##### phenol:

|                      |                                                                                                                                                        |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Effects on fertility | : Species: Rat, male and female<br>Application Route: Oral<br>Method: OECD Test Guideline 416<br>Remarks: No significant adverse effects were reported |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|

Species: Mouse, female  
Application Route: Oral

|                               |                                                                                                                                                |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Effects on foetal development | : Species: Rat, female<br>Application Route: Oral<br>General Toxicity Maternal: NOAEL: 60 mg/kg body weight<br>Method: OECD Test Guideline 414 |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 71

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 12.09.2018  |
| 2.0     | 30.06.2023     | 400001008962 | Date of first issue: 07.12.2015 |

Print Date 01.07.2024

Result: No teratogenic effects

### methanol:

Effects on fertility

: Species: Rat, male and female  
Application Route: Inhalation  
Method: OECD Test Guideline 416  
Result: negative

Species: Monkey, female  
Application Route: Inhalation  
Result: negative

Species: Mouse, male  
Application Route: Oral  
Result: negative

Effects on foetal development

: Species: Monkey  
Application Route: Inhalation  
General Toxicity Maternal: NOAEL: 2 390 mg/m<sup>3</sup>  
Result: No teratogenic effects

### STOT - single exposure

#### Components:

### methanol:

Target Organs

: Bladder, Blood, Central nervous system, Eyes, Kidney, Liver, Nervous system, spleen

Assessment

: The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.

### STOT - repeated exposure

#### Components:

### phenol:

Target Organs

: Central nervous system

Assessment

: May cause damage to organs through prolonged or repeated exposure.

### Repeated dose toxicity

#### Components:

### ethanol:

|                     |                       |
|---------------------|-----------------------|
| Species             | : Rat, male           |
| NOAEL               | : 1,28 g/kg           |
| Application Route   | : Ingestion           |
| Exposure time       | : 14 Weeks            |
| Number of exposures | : 7 d                 |
| Method              | : Subchronic toxicity |

### phenol:

Species : Monkey, male

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 71

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 12.09.2018  |
| 2.0     | 30.06.2023     | 400001008962 | Date of first issue: 07.12.2015 |

Print Date 01.07.2024

NOEC : 1,8 mg/kg, > 19,6 mg/m<sup>3</sup>  
Application Route : Ingestion  
Test atmosphere : dust/mist  
Exposure time : 672 h  
Number of exposures : 8 h  
Method : Subacute toxicity

Species : Rabbit  
LOEL : 260 mg/kg  
Application Route : Skin contact  
Exposure time : 432 h  
Method : Subacute toxicity

Species : Rat, male and female  
NOAEL : 450 mg/kg  
Application Route : Ingestion  
Exposure time : 103 Weeks  
Number of exposures : 7 d  
Method : Chronic toxicity

### methanol:

Species : Monkey  
NOEC : 13 mg/m<sup>3</sup>  
Test atmosphere : vapour  
Exposure time : 5 040 h  
Number of exposures : 21 h

Species : Monkey, male and female  
NOEC : 6660 mg/m<sup>3</sup>  
Application Route : Ingestion  
Test atmosphere : vapour  
Exposure time : 72 h  
Number of exposures : 6 h  
Method : OECD Test Guideline 412

Species : Monkey  
NOEC : 1300 mg/m<sup>3</sup>  
Test atmosphere : vapour  
Exposure time : 1 440 h  
Number of exposures : 21 h

Species : Monkey  
LOEC : 3990 mg/m<sup>3</sup>  
Test atmosphere : vapour  
Exposure time : 480 h  
Number of exposures : 21 h

### formaldehyde:

Species : Mouse, male and female  
LOAEL : 6 ppm  
Test atmosphere : gas  
Exposure time : 2 yr  
Number of exposures : 6 h  
Method : OECD Test Guideline 453

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

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## ARALDITE® 71

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 12.09.2018  |
| 2.0     | 30.06.2023     | 400001008962 | Date of first issue: 07.12.2015 |

Print Date 01.07.2024

Species : Rat, male and female  
NOAEL : 15 - 21 mg/kg  
Application Route : Ingestion  
Exposure time : 105 Weeks  
Number of exposures : 7 d  
Method : Chronic toxicity

Species : Rat, male and female  
NOAEL : 82 mg/kg/d  
Application Route : Ingestion  
Exposure time : 105 Weeks  
Number of exposures : 7 d  
Method : Chronic toxicity

### Aspiration toxicity

#### Components:

##### methanol:

May be harmful if swallowed and enters airways.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

### Experience with human exposure

No data available

### Toxicology, Metabolism, Distribution

No data available

### Neurological effects

No data available

### Further information

#### Product:

Remarks : Solvents may degrease the skin.

#### Components:

##### methanol:

Remarks : Solvents may degrease the skin.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

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## ARALDITE® 71

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 12.09.2018  |
| 2.0     | 30.06.2023     | 400001008962 | Date of first issue: 07.12.2015 |

Print Date 01.07.2024

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **ethanol:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 13 000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): 12 340 mg/l  
aquatic invertebrates  
Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l  
plants  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201

NOEC (Lemna gibba (gibbous duckweed)): 280 mg/l  
Method: OECD Test Guideline 201

Toxicity to microorganisms : (activated sludge): 440 mg/l

Toxicity to daphnia and other : NOEC: 9,6 mg/l  
aquatic invertebrates  
Exposure time: 10 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Test substance: Fresh water

NOEC: 9,6 mg/l  
Exposure time: 7 d  
Species: Ceriodaphnia dubia (Water flea)  
Test Type: semi-static test  
Test substance: Fresh water

##### **phenol:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 8,9 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Test substance: Fresh water

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 3,1 mg/l  
aquatic invertebrates  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids

Toxicity to fish (Chronic : NOEC: 0,077 mg/l  
toxicity)  
Exposure time: 60 d  
Species: Other  
Test Type: semi-static test

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

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## ARALDITE® 71

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 12.09.2018  |
| 2.0     | 30.06.2023     | 400001008962 | Date of first issue: 07.12.2015 |

Print Date 01.07.2024

Test substance: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 4,6 mg/l  
Exposure time: 16 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Test substance: Fresh water

### methanol:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 15 400 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Test substance: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10 000 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: DIN 38412

Toxicity to algae/aquatic plants : ErC50 (Selenastrum capricornutum (green algae)): ca. 22 000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201

Toxicity to microorganisms : IC50 (activated sludge): > 1 000 mg/l  
Exposure time: 3 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 209

### formaldehyde:

Toxicity to fish : LC50 (Other): 6,7 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): 5,8 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EgC50 (Other): 3,48 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201

EC50 (Other): 3,48 mg/l  
Exposure time: 72 h  
Test Type: static test

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 71

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 12.09.2018  |
| 2.0     | 30.06.2023     | 400001008962 | Date of first issue: 07.12.2015 |

Print Date 01.07.2024

Test substance: Fresh water  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Bacteria): 34,1 mg/l  
Exposure time: 120 h  
Test Type: static test  
Test substance: Fresh water

EC50 (activated sludge): 20,4 mg/l  
Exposure time: 3 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 209

### Talc ( $\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$ ):

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l  
Exposure time: 24 h

## 12.2 Persistence and degradability

### Components:

#### ethanol:

Biodegradability : Biodegradation: 97 %  
Method: OECD Test Guideline 301B

Biochemical Oxygen Demand (BOD) : 1.67 g/g  
Incubation time: 5 d

Chemical Oxygen Demand (COD) : 1990 mgO<sub>2</sub>/g

#### phenol:

Biodegradability : Inoculum: activated sludge  
Concentration: 30 mg/l  
Result: Readily biodegradable.  
Biodegradation: 62 %  
Exposure time: 4,16667 d  
Method: OECD Test Guideline 301C

#### methanol:

Biodegradability : Inoculum: Marine water  
Result: Readily biodegradable.  
Biodegradation: 69 - 97 %  
Exposure time: 5 - 20 d

Photodegradation : Test Type: Air  
Rate constant: 0.0093  
Degradation (direct photolysis): 50 %

#### formaldehyde:

Biodegradability : Inoculum: activated sludge

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 71

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 12.09.2018  |
| 2.0     | 30.06.2023     | 400001008962 | Date of first issue: 07.12.2015 |

Print Date 01.07.2024

Concentration: 1 360 mg/l  
Result: Readily biodegradable.  
Biodegradation: 100 %  
Exposure time: 4 d

Inoculum: activated sludge  
Concentration: 100 mg/l  
Result: Readily biodegradable.  
Biodegradation: 91 %  
Exposure time: 14 d  
Method: OECD Test Guideline 301C

Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: 99,5 %  
Exposure time: 160 d  
Method: OECD Test Guideline 303A

Biochemical Oxygen Demand (BOD) : 0,33 - 1,07 mg/l  
Incubation time: 5 d

Chemical Oxygen Demand (COD) : 1.07 mgO<sub>2</sub>/g

### 12.3 Bioaccumulative potential

#### Components:

##### **ethanol:**

Bioaccumulation : Bioconcentration factor (BCF): 0,66 - 3,2

Partition coefficient: n-octanol/water : log Pow: -0,31

##### **phenol:**

Partition coefficient: n-octanol/water : log Pow: 1,47 (30 °C)  
pH: 3,8

##### **methanol:**

Bioaccumulation : Species: Leuciscus idus (Golden orfe)  
Exposure time: 3 d  
Bioconcentration factor (BCF): < 10  
Test substance: Fresh water

Partition coefficient: n-octanol/water : log Pow: -0,77

##### **formaldehyde:**

Partition coefficient: n-octanol/water : log Pow: 0,35 (25 °C)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 71

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 12.09.2018  |
| 2.0     | 30.06.2023     | 400001008962 | Date of first issue: 07.12.2015 |

Print Date 01.07.2024

### 12.4 Mobility in soil

#### Components:

##### **formaldehyde:**

Distribution among : Koc: 15,9  
environmental compartments

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

### 12.7 Other adverse effects

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of contents and container in accordance with all local, regional, national and international regulations.  
Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADN : UN 1866  
ADR : UN 1866

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 71

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 12.09.2018  |
| 2.0     | 30.06.2023     | 400001008962 | Date of first issue: 07.12.2015 |

Print Date 01.07.2024

**RID** : UN 1866

**IMDG** : UN 1866

**IATA** : UN 1866

### 14.2 UN proper shipping name

**ADN** : RESIN SOLUTION

**ADR** : RESIN SOLUTION

**RID** : RESIN SOLUTION

**IMDG** : RESIN SOLUTION

**IATA** : Resin solution

### 14.3 Transport hazard class(es)

|             | Class | Subsidiary risks |
|-------------|-------|------------------|
| <b>ADN</b>  | : 3   |                  |
| <b>ADR</b>  | : 3   |                  |
| <b>RID</b>  | : 3   |                  |
| <b>IMDG</b> | : 3   |                  |
| <b>IATA</b> | : 3   |                  |

### 14.4 Packing group

#### **ADN**

Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3

#### **ADR**

Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Tunnel restriction code : (D/E)

#### **RID**

Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3

#### **IMDG**

Packing group : II  
Labels : 3  
EmS Code : F-E, S-E

#### **IATA (Cargo)**

Packing instruction (cargo aircraft) : 364  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 71

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 12.09.2018  |
| 2.0     | 30.06.2023     | 400001008962 | Date of first issue: 07.12.2015 |

Print Date 01.07.2024

### IATA (Passenger)

|                                             |   |                   |
|---------------------------------------------|---|-------------------|
| Packing instruction<br>(passenger aircraft) | : | 353               |
| Packing instruction (LQ)                    | : | Y341              |
| Packing group                               | : | II                |
| Labels                                      | : | Flammable Liquids |

### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : no

#### ADR

Environmentally hazardous : no

#### RID

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.

methanol (Number on list 75, 69)  
formaldehyde (Number on list 72, 28)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 71

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 12.09.2018  |
| 2.0     | 30.06.2023     | 400001008962 | Date of first issue: 07.12.2015 |

Print Date 01.07.2024

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P5c FLAMMABLE LIQUIDS

Occupational Illnesses (R-461-3, France) : 84, 25, 43bis

Reinforced medical supervision (R4624-18) : This product requires a reinforced medical supervision under Article R4624-18 (Labour Code)

Installations classified for the protection of the environment (Environment Code R511-9) : 4331, 4734, 4722

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

### The components of this product are reported in the following inventories:

DSL : This product contains one or several components listed in the Canadian NDSL.

AIIC : All components are listed on the inventory, regulatory obligations/restrictions apply. Please contact your sales representative for more information before import into Australia

ENCS : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : On or in compliance with the active portion of the TSCA inventory

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 71

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 12.09.2018  |
| 2.0     | 30.06.2023     | 400001008962 | Date of first issue: 07.12.2015 |

Print Date 01.07.2024

### Inventories

AICS (Australia), AIIC (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA))

### 15.2 Chemical safety assessment

Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

## SECTION 16: Other information

### Full text of H-Statements

|      |                                                                      |
|------|----------------------------------------------------------------------|
| H225 | : Highly flammable liquid and vapour.                                |
| H301 | : Toxic if swallowed.                                                |
| H311 | : Toxic in contact with skin.                                        |
| H314 | : Causes severe skin burns and eye damage.                           |
| H317 | : May cause an allergic skin reaction.                               |
| H318 | : Causes serious eye damage.                                         |
| H319 | : Causes serious eye irritation.                                     |
| H331 | : Toxic if inhaled.                                                  |
| H341 | : Suspected of causing genetic defects.                              |
| H350 | : May cause cancer.                                                  |
| H370 | : Causes damage to organs.                                           |
| H373 | : May cause damage to organs through prolonged or repeated exposure. |
| H411 | : Toxic to aquatic life with long lasting effects.                   |

### Full text of other abbreviations

|                   |                                                                                                                                                                                                                    |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute Tox.        | : Acute toxicity                                                                                                                                                                                                   |
| Aquatic Chronic   | : Long-term (chronic) aquatic hazard                                                                                                                                                                               |
| Carc.             | : Carcinogenicity                                                                                                                                                                                                  |
| Eye Dam.          | : Serious eye damage                                                                                                                                                                                               |
| Eye Irrit.        | : Eye irritation                                                                                                                                                                                                   |
| Flam. Liq.        | : Flammable liquids                                                                                                                                                                                                |
| Muta.             | : Germ cell mutagenicity                                                                                                                                                                                           |
| Skin Corr.        | : Skin corrosion                                                                                                                                                                                                   |
| Skin Sens.        | : Skin sensitisation                                                                                                                                                                                               |
| STOT RE           | : Specific target organ toxicity - repeated exposure                                                                                                                                                               |
| STOT SE           | : Specific target organ toxicity - single exposure                                                                                                                                                                 |
| 2004/37/EC        | : Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work                                                                                  |
| 2006/15/EC        | : Europe. Indicative occupational exposure limit values                                                                                                                                                            |
| 2009/161/EU       | : Europe. COMMISSION DIRECTIVE 2009/161/EU establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC |
| FR VLE            | : France. Occupational Exposure Limits                                                                                                                                                                             |
| 2004/37/EC / STEL | : Short term exposure limit                                                                                                                                                                                        |
| 2004/37/EC / TWA  | : Long term exposure limit                                                                                                                                                                                         |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 71

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 12.09.2018  |
| 2.0     | 30.06.2023     | 400001008962 | Date of first issue: 07.12.2015 |

Print Date 01.07.2024

|                     |                             |
|---------------------|-----------------------------|
| 2006/15/EC / TWA    | : Limit Value - eight hours |
| 2009/161/EU / TWA   | : Limit Value - eight hours |
| 2009/161/EU / STEL  | : Short term exposure limit |
| FR VLE / VME        | : Time Weighted Average     |
| FR VLE / VLCT (VLE) | : Short Term Exposure Limit |

### Further information

#### Classification of the mixture:

|                   |      |
|-------------------|------|
| Flam. Liq. 2      | H225 |
| Acute Tox. 4      | H302 |
| Skin Corr. 1B     | H314 |
| Eye Dam. 1        | H318 |
| Skin Sens. 1      | H317 |
| Muta. 2           | H341 |
| Carc. 1B          | H350 |
| Aquatic Chronic 3 | H412 |

#### Classification procedure:

Based on product data or assessment

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

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