

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

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		system) Aquatic Chronic 2; H411 specific concentration limit Skin Corr. 1B; H314 ≥ 3 % Skin Irrit. 2; H315 1 - < 3 % Eye Irrit. 2; H319 1 - < 3 %	
methanol	67-56-1 200-659-6 603-001-00-X 01-2119433307-44	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 STOT SE 1; H370 (Bladder, Blood, Central nervous system, Eyes, Kidney, Liver, Nervous system, spleen) specific concentration limit STOT SE 1; H370 ≥ 10 % STOT SE 2; H371 3 - < 10 %	≥ 1 - < 3
formaldehyde	50-00-0 200-001-8 605-001-00-5 01-2119488953-20	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Muta. 2; H341 Carc. 1B; H350 specific concentration limit Skin Corr. 1B; H314 ≥ 25 % Skin Irrit. 2; H315 5 - < 25 % Eye Irrit. 2; H319 5 - < 25 % STOT SE 3; H335 ≥ 5 % Skin Sens. 1; H317 ≥ 0,2 %	≥ 0,2 - < 1
Substances with a workplace exposure limit :			
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	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.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Treat symptomatically.
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
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Avoid inhalation, ingestion and contact with skin and eyes.
No action shall be taken involving any personal risk or without suitable training.
It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |
| If inhaled | : If inhaled, remove to fresh air.
Get medical attention if symptoms occur. |
| In case of skin contact | : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes. |
| In case of eye contact | : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist. |
| If swallowed | : Keep respiratory tract clear.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
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 (CO₂)
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 1 900 mg/m3	FR VLE
Further information	Indicative exposure limits			
		VLCT (VLE)	5 000 ppm 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 8 mg/m3	2009/161/EU
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	4 ppm 16 mg/m3	2009/161/EU
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		VLCT (VLE)	4 ppm 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 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 260 mg/m3	2006/15/EC
Further information	Indicative, Identifies the possibility of significant uptake through the skin			
		VME	200 ppm 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 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 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 0,74 mg/m3	2004/37/EC
Further information	Dermal sensitisation, Carcinogens or mutagens			
		TWA	0,3 ppm 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.

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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 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 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 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.

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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/cm³ (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_x)
Halogenated compounds

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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 Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2 000 mg/kg Method: Calculation method

Components:

ethanol:

Acute oral toxicity	:	LD50 (Rat, male and female): 10 470 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat, male and female): 116,9 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403 LC50 (Rat): 95,6 - 125 mg/l Exposure time: 4 h Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 (Rabbit): > 2 000 mg/kg 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 Assessment: The substance or mixture has no acute dermal toxicity

phenol:

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

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LC50 (Rat, female): > 900 mg/m³
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.

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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

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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 Test system: mouse lymphoma cells Concentration: 33.99 mg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative
	Test Type: reverse mutation assay Test system: Salmonella typhimurium Concentration: 10 mg/plate Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative

phenol:

Germ cell mutagenicity- Assessment	: In vitro tests showed mutagenic effects
---------------------------------------	---

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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

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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 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	: Species: Rat General Toxicity - Parent: NOAEL: 5 200 mg/kg body weight
----------------------	--

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

phenol:

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

Effects on foetal development	: Species: Rat, female Application Route: Oral General Toxicity Maternal: NOAEL: 60 mg/kg body weight Method: OECD Test Guideline 414
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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/m³
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

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NOEC : 1,8 mg/kg, > 19,6 mg/m³
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/m³
Test atmosphere : vapour
Exposure time : 5 040 h
Number of exposures : 21 h

Species : Monkey, male and female
NOEC : 6660 mg/m³
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/m³
Test atmosphere : vapour
Exposure time : 1 440 h
Number of exposures : 21 h

Species : Monkey
LOEC : 3990 mg/m³
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

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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.

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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

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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

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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 mgO₂/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

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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 mgO₂/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)

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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

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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
ADN	: 3	
ADR	: 3	
RID	: 3	
IMDG	: 3	
IATA	: 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

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IATA (Passenger)

Packing instruction (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)

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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

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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

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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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