

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® HY 5726 BD

Version	Revision Date:	SDS Number:	Date of last issue: 29.07.2019
2.0	21.03.2023	400001009642	Date of first issue: 23.05.2018

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

#### 1.1 Product identifier

Trade name : ARADUR® HY 5726 BD

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

Use of the Substance/Mixture : Component used for the manufacture of electrical insulation parts

#### 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

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Serious eye damage, Category 1 H318: Causes serious eye damage.

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Respiratory sensitisation, Category 1

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

### 2.2 Label elements

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

Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements

:

#### Prevention:

P261 Avoid breathing mist or vapours.  
P280 Wear protective gloves/ eye protection/ face protection.  
P284 Wear respiratory protection.

#### Response:

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.

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

hexahydromethylphthalic anhydride  
cyclohexane-1,2-dicarboxylic anhydride  
tetrahydromethylphthalic anhydride

### 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

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### 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)
hexahydromethylphthalic anhydride	25550-51-0 247-094-1 607-241-00-6 01-2119510879-29	Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1; H317	>= 50 - < 70
cyclohexane-1,2-dicarboxylic anhydride	85-42-7 201-604-9 607-102-00-X 01-2119486666-21	Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1; H317	>= 10 - < 20
tetrahydromethylphthalic anhydride	11070-44-3 234-290-7 607-240-00-0 01-2119488054-36	Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1; H317	>= 10 - < 20
1-methylimidazole	616-47-7 210-484-7 613-035-00-7 01-2119979544-23	Acute Tox. 4; H302 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Repr. 2; H361d  Acute toxicity estimate  Acute oral toxicity: 1 144 mg/kg Acute dermal toxicity: 400 mg/kg	>= 0,1 - < 1

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.

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- |                         |  |
|-------------------------|--|
| If inhaled              | : Call a physician or poison control centre immediately.<br>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            | : Induce vomiting immediately and call a physician.<br>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.

## 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 : Carbon oxides

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### 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.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |

## SECTION 6: Accidental release measures

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

- |                      |   |  |
|----------------------|---|--|
| Personal precautions | : | Use personal protective equipment.<br>Ensure adequate ventilation.<br>Refer to protective measures listed in sections 7 and 8. |
|----------------------|---|--|

### 6.2 Environmental precautions

- |                           |   |   |
|---------------------------|---|---|
| Environmental precautions | : | Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |
|---------------------------|---|---|

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

- |                         |   |   |
|-------------------------|---|---|
| Methods for cleaning up | : | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal. |
|-------------------------|---|---|

### 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

- |                         |   |  |
|-------------------------|---|--|
| Advice on safe handling | : | Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation of susceptible persons.<br>Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.<br>Do not breathe vapours/dust.<br>Avoid exposure - obtain special instructions before use.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area. |
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To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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 : Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Keep in properly labelled containers.

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

Contains no substances with occupational exposure limit values.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
1-methylimidazole	Workers	Inhalation	Systemic effects, Long-term exposure	1,47 mg/m <sup>3</sup>
	Workers	Dermal	Systemic effects, Long-term exposure	0,42 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
cyclohexane-1,2-dicarboxylic anhydride	Fresh water	90,5 µg/l
	Remarks:Assessment Factors	
	Marine water	9,05 µg/l

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	Remarks:Assessment Factors	
	Sewage treatment plant	10000 µg/l
	Remarks:Assessment Factors	
	Fresh water sediment	0,445 mg/kg
	Remarks:Equilibrium method	
	Marine sediment	0,044 mg/kg
	Remarks:Equilibrium method	
	Soil	0,801 mg/kg dry weight (d.w.)
	Remarks:Equilibrium method	
	Secondary Poisoning	20 mg/kg
tetrahydromethylphthalic anhydride	Fresh water	2 mg/l
	Remarks:Assessment Factors	
	Marine water	0,2 mg/l
	Remarks:Assessment Factors	
	Intermittent use/release	0,79 mg/l
	Remarks:Assessment Factors	
	Fresh water sediment	46,6 mg/kg
	Remarks:Equilibrium method	
	Marine sediment	4,66 mg/kg
	Remarks:Equilibrium method	
	Sewage treatment plant	0,699 mg/l
	Remarks:Assessment Factors	
	Soil	11,5 mg/kg
	Remarks:Equilibrium method	
1-methylimidazole	Fresh water	0,1 mg/l
	Remarks:Assessment Factors	
	Marine water	0,01 mg/l
	Remarks:Assessment Factors	
	Freshwater - intermittent	1 mg/l
	Remarks:Assessment Factors	
	Sewage treatment plant	590 mg/kg
	Remarks:Assessment Factors	
	Fresh water sediment	6,95 mg/kg
	Remarks:Equilibrium method	
	Marine sediment	0,695 mg/kg
	Remarks:Equilibrium method	
	Soil	1,26 mg/kg
	Remarks:Equilibrium method	

### 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.

Hand protection

Material : butyl-rubber  
Break through time : > 8 h

Material : Solvent-resistant gloves (butyl-rubber)

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Material : Nitrile rubber  
Break through time : 10 - 480 min

Remarks : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

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 : In the case of vapour formation use a respirator with an approved filter.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: light yellow
Odour	: slight
Odour Threshold	: No data is available on the product itself.
pH	: No data is available on the product itself.
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: ca. 145 °C Method: Pensky-Martens 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.
Vapour pressure	: No data is available on the product itself.
Relative vapour density	: No data is available on the product itself.
Relative density	: ca. 1,17 - 1,2 (20 °C)
Density	: ca. 1,17 g/cm <sup>3</sup> (20 °C)



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Solubility(ies)  
Water solubility : No data is available on the product itself.

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 : No data is available on the product itself.

Decomposition temperature : No data is available on the product itself.

Viscosity  
Viscosity, dynamic : ca. 70 mPa.s (25 °C)

### 9.2 Other information

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

Burning rate : No data is available on the product itself.

Evaporation rate : No data is available on the product itself.

Molecular weight : 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 : No hazards to be specially mentioned.

### 10.4 Conditions to avoid

Conditions to avoid : None known.

### 10.5 Incompatible materials

Materials to avoid : Strong acids  
Strong bases  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : carbon dioxide  
carbon monoxide

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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 dermal toxicity : Acute toxicity estimate: > 2 000 mg/kg  
Method: Calculation method

###### Components:

###### **hexahydromethylphthalic anhydride:**

Acute oral toxicity : LD50 (Rat): > 5 000 mg/kg

###### **cyclohexane-1,2-dicarboxylic anhydride:**

Acute oral toxicity : LD50 (Rat, male and female): 4 040 mg/kg  
Method: Other guidelines  
GLP: no  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat, male and female): > 1.100 mg/m<sup>3</sup>  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 2 000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity

###### **tetrahydromethylphthalic anhydride:**

Acute oral toxicity : LD50 (Rat, male and female): > 2 000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 2 000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

###### **1-methylimidazole:**

Acute oral toxicity : LD50 (Rat, male and female): ca. 1 144 mg/kg  
Method: OECD Test Guideline 401

Acute toxicity estimate: 1 144 mg/kg  
Method: Calculation method

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Acute inhalation toxicity : LC0 (Rat): 1,2 mg/l  
Exposure time: 8 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit, male and female): 400 - 640 mg/kg  
Method: OECD Test Guideline 402

Acute toxicity estimate: 400 mg/kg  
Method: Calculation method

### Skin corrosion/irritation

#### Components:

##### **cyclohexane-1,2-dicarboxylic anhydride:**

Species : Rabbit  
Exposure time : 24 h  
Assessment : No skin irritation  
Method : Other guidelines  
Result : No skin irritation  
GLP : no

##### **tetrahydromethylphthalic anhydride:**

Species : Rabbit  
Assessment : Mild skin irritant  
Method : OPPTS 870.2500  
Result : slight irritation

##### **1-methylimidazole:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Corrosive after 3 minutes to 1 hour of exposure

### Serious eye damage/eye irritation

#### Components:

##### **hexahydromethylphthalic anhydride:**

Species : Rabbit  
Result : Risk of serious damage to eyes.

##### **cyclohexane-1,2-dicarboxylic anhydride:**

Species : Rabbit  
Exposure time : 30 s  
Assessment : Risk of serious damage to eyes.  
Method : Other guidelines  
Result : Risk of serious damage to eyes.

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### **tetrahydromethylphthalic anhydride:**

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Corrosive

### **1-methylimidazole:**

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Irreversible effects on the eye

### **Respiratory or skin sensitisation**

#### **Components:**

#### **hexahydromethylphthalic anhydride:**

Result	:	May cause sensitisation by inhalation.
Result	:	May cause sensitisation by skin contact.

#### **cyclohexane-1,2-dicarboxylic anhydride:**

Test Type	:	Maximisation Test
Exposure routes	:	Dermal
Species	:	Guinea pig
Assessment	:	May cause sensitisation by skin contact.
Method	:	OECD Test Guideline 406
Result	:	May cause sensitisation by skin contact.
GLP	:	no

Test Type	:	see user defined free text
Exposure routes	:	inhalation (vapour)
Species	:	Humans
Assessment	:	May cause sensitisation by inhalation.
Result	:	May cause sensitisation by inhalation.

### **tetrahydromethylphthalic anhydride:**

Exposure routes	:	Respiratory Tract
Species	:	Humans
Result	:	May cause sensitisation by inhalation.
Result	:	May cause sensitisation by skin contact.

### **Germ cell mutagenicity**

#### **Components:**

#### **cyclohexane-1,2-dicarboxylic anhydride:**

Genotoxicity in vitro	:	Test Type: Chromosome aberration test in vitro
		Test system: Human lymphocytes
		Metabolic activation: with and without metabolic activation
		Method: OECD Test Guideline 473
		Result: negative
		GLP: yes

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Test Type: Ames test  
Test system: Salmonella typhimurium and E. coli  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

Germ cell mutagenicity-  
Assessment : In vitro tests did not show mutagenic effects

### 1-methylimidazole:

Genotoxicity in vitro : Test Type: Micronucleus test  
Test system: Chinese hamster fibroblasts  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 487  
Result: negative

Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

### Carcinogenicity

No data available

### Reproductive toxicity

#### Components:

#### cyclohexane-1,2-dicarboxylic anhydride:

Effects on fertility : Test Type: Reproduction / Developmental Toxicity Screening Test  
Species: Rat, male and female  
Application Route: Oral  
Dose: 0, 100, 300, 1000 mg/kg  
Frequency of Treatment: 7 days/week  
General Toxicity - Parent: LOAEL: 1 000 mg/kg body weight  
General Toxicity F1: NOAEL: 1 000 mg/kg body weight  
Method: OECD Test Guideline 421  
Result: Animal testing did not show any effects on fertility.

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GLP: yes

Effects on foetal development : Species: Rat, male and female  
Application Route: Oral  
Dose: 0, 100, 300 and 1000 mg/kg bo  
Frequency of Treatment: 1 daily  
General Toxicity Maternal: LOAEL: 1 000 mg/kg body weight  
Developmental Toxicity: NOAEL: 1 000 mg/kg body weight  
Method: OECD Test Guideline 421  
Result: No adverse effects  
GLP: yes

Reproductive toxicity - Assessment : No toxicity to reproduction  
No toxicity to reproduction

### 1-methylimidazole:

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Dose: 10, 30, 90 milligram per kilogram  
General Toxicity - Parent: NOAEL: 30 mg/kg body weight  
General Toxicity F1: NOAEL: 90 mg/kg body weight  
Method: OECD Test Guideline 422  
Result: No effects on fertility and early embryonic development were detected.

Effects on foetal development : Test Type: Pre-natal  
Species: Rat, female  
Application Route: Oral  
Dose: 10, 30, 90 milligram per kilogram  
General Toxicity Maternal: NOAEL: 90 mg/kg body weight  
Method: OECD Test Guideline 414

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

### STOT - single exposure

No data available

### STOT - repeated exposure

No data available

### Repeated dose toxicity

#### Components:

#### **cyclohexane-1,2-dicarboxylic anhydride:**

Species	: Rat, male and female
NOEL	: 100 mg/kg
NOAEL	: 100 mg/kg
Application Route	: Oral
Exposure time	: 6 Weeks
Number of exposures	: one daily
Dose	: 0, 100, 300, 1000 mg/kg
Control Group	: yes
Method	: OECD Test Guideline 407

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GLP : yes  
Target Organs : Respiratory system, Stomach

### 1-methylimidazole:

Species : Rat, male and female  
NOAEL : 90 mg/kg  
Application Route : oral (gavage)  
Dose : 10,30,90 mg/kg bw/day  
Method : OECD Test Guideline 408

### Aspiration toxicity

No data available

## 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

No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### cyclohexane-1,2-dicarboxylic anhydride:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 1 000 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 203  
GLP: no

NOEC : 1 000 mg/l

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): > 100 mg/l  
aquatic invertebrates  
Exposure time: 48 h

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Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes

NOEC : 100 mg/l

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 90,5 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

EyC50 (Pseudokirchneriella subcapitata (green algae)): 70,3 mg/l  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 46,9 mg/l  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to microorganisms : EC50 (activated sludge): 370 mg/l  
Exposure time: 3 h  
Test Type: static test  
Method: OECD Test Guideline 209  
GLP: yes

### tetrahydromethylphthalic anhydride:

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): > 100 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Test substance: Fresh water  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 130 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 (Selenastrum capricornutum (green algae)): 68 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201

Toxicity to microorganisms : IC20 : 9,33 mg/l  
Exposure time: 3 h  
Test Type: flow-through test



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Test substance: Fresh water  
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: 100 mg/l  
Exposure time: 14 d  
Species: *Oryzias latipes* (Orange-red killifish)  
Test Type: flow-through test  
Test substance: Fresh water  
Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 20 mg/l  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)  
Test Type: semi-static test  
Test substance: Fresh water  
Method: OECD Test Guideline 211

### 1-methylimidazole:

Toxicity to fish : LC50 (*Leuciscus idus* (Golden orfe)): > 100 - < 215 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: Fresh water  
Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 267,9 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): 202,5 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): 1 050 mg/l  
Exposure time: 7 h  
Test Type: static test  
Test substance: Fresh water  
Method: DIN 38 412 Part 8

## 12.2 Persistence and degradability

### Components:

#### **cyclohexane-1,2-dicarboxylic anhydride:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge, non-adapted  
Concentration: 24 mg/l  
Result: Readily biodegradable.  
Biodegradation: 98 %  
Exposure time: 28 d  
Method: Directive 67/548/EEC Annex V, C.4.A.  
GLP: yes

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Remarks: Readily biodegradable, according to appropriate OECD test.

### tetrahydromethylphthalic anhydride:

Biodegradability : Inoculum: activated sludge  
Concentration: 100 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C

Stability in water : Degradation half life (DT50): 3,3 min (20 °C)  
pH: 4  
Method: OECD Test Guideline 111  
Remarks: Fresh water

### 1-methylimidazole:

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 100 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 0 - 10 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 40 mg/l  
Result: Inherently biodegradable.  
Biodegradation: 79 %  
Exposure time: 60 d  
Method: ISO Method, other

## 12.3 Bioaccumulative potential

### Components:

#### cyclohexane-1,2-dicarboxylic anhydride:

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 4,73

Partition coefficient: n-octanol/water : log Pow: -4,14 (20 °C)  
Method: QSAR

log Pow: -0,31 (20 °C)  
Method: QSAR

log Pow: 1,59 (20 °C)  
Method: QSAR

#### tetrahydromethylphthalic anhydride:

Bioaccumulation : Bioconcentration factor (BCF): 3,16

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Partition coefficient: n-octanol/water : log Pow: 2,38 - 2,51 (25 °C)  
pH: 6  
Method: QSAR

### 1-methylimidazole:

Partition coefficient: n-octanol/water : log Pow: -0,19 (25 °C)  
pH: 9,25 - 9,85  
Method: OECD Test Guideline 107

## 12.4 Mobility in soil

### Components:

#### 1-methylimidazole:

Distribution among environmental compartments : Koc: 27  
Method: Calculation method

## 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

No data available

## 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.

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

UNRTDG	: Not regulated as dangerous goods
ADN	: Not regulated as dangerous goods
ADR	: Not regulated as dangerous goods
RID	: Not regulated as dangerous goods
IMDG	: Not regulated as dangerous goods
IATA	: Not regulated as dangerous goods

#### 14.2 UN proper shipping name

UNRTDG	: Not regulated as dangerous goods
ADN	: Not regulated as dangerous goods
ADR	: Not regulated as dangerous goods
RID	: Not regulated as dangerous goods
IMDG	: Not regulated as dangerous goods
IATA	: Not regulated as dangerous goods

#### 14.3 Transport hazard class(es)

ADN	: Not regulated as dangerous goods
ADR	: Not regulated as dangerous goods
RID	: Not regulated as dangerous goods
IMDG	: Not regulated as dangerous goods
IATA	: Not regulated as dangerous goods

#### 14.4 Packing group

ADN	: Not regulated as dangerous goods
ADR	: Not regulated as dangerous goods
RID	: Not regulated as dangerous goods
IMDG	: Not regulated as dangerous goods
IATA (Cargo)	: Not regulated as dangerous goods
IATA (Passenger)	: Not regulated as dangerous goods

#### 14.5 Environmental hazards

Not regulated as dangerous goods

#### 14.6 Special precautions for user

Remarks	: Not classified as dangerous in the meaning of transport regulations.
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#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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### 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).   | : hexahydromethylphthalic anhydride<br>cyclohexane-1,2-dicarboxylic anhydride   |
| 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:<br>Number on list 75, 3<br><br>If you intend to use this product as tattoo ink, please contact your vendor. |
| Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. | Not applicable  |
| Occupational Illnesses (R-461-3, France)  | : 51, 66bis, 66   |

#### Other regulations:

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

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

- |       |  |
|-------|--|
| DSL   | : All components of this product are on the Canadian DSL |
| AIIC  | : On the inventory, or in compliance with the inventory  |
| NZIoC | : On the inventory, or in compliance with the inventory  |
| ENCS  | : On the inventory, or in compliance with the inventory  |
| KECI  | : On the inventory, or in compliance with the inventory  |
| PICCS | : Not in compliance with the inventory                   |

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

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

TSCA : All substances listed as active on the TSCA inventory

### Inventories

AICS (Australia), AIC (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

H302	: Harmful 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.
H334	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H361d	: Suspected of damaging the unborn child.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Eye Dam.	: Serious eye damage
Repr.	: Reproductive toxicity
Resp. Sens.	: Respiratory sensitisation
Skin Corr.	: Skin corrosion
Skin Sens.	: Skin sensitisation

### Further information

#### Classification of the mixture:

Eye Dam. 1	H318
Resp. Sens. 1	H334
Skin Sens. 1	H317

#### Classification procedure:

Calculation method
Calculation method
Calculation method

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