



**ARALDITE® 2051 RESIN**

Version 1.0      Revision Date: 17.02.2021      SDS Number: 400000011295      Date of last issue: -  
Date of first issue: 17.02.2021

Print Date 11.08.2021

Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Chronic aquatic toxicity, 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.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
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 with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
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:  
methyl methacrylate

**ARALDITE® 2051 RESIN**

Version 1.0      Revision Date: 17.02.2021      SDS Number: 400000011295      Date of last issue: -  
Date of first issue: 17.02.2021

Print Date 11.08.2021

methacrylic acid

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate

**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)
methyl methacrylate	80-62-6 201-297-1 607-035-00-6 01-2119452498-28	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system)	>= 50 - < 70
methacrylic acid	79-41-4 201-204-4 607-088-00-5 01-2119463884-26	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 3; H311 Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system)  specific concentration limit STOT SE 3; H335 >= 1 %	>= 5 - < 10
2,6-Di-tert-butyl-p-cresol	128-37-0 204-881-4 01-2119555270-46	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Chronic aquatic toxicity): 1	>= 1 - < 2,5
2-Propenoic acid, 2-methyl-, 2-	52628-03-2	Skin Corr. 1A; H314	>= 1 - <

**ARALDITE® 2051 RESIN**

Version 1.0      Revision Date: 17.02.2021      SDS Number: 400000011295      Date of last issue: -  
Date of first issue: 17.02.2021

Print Date 11.08.2021

hydroxyethyl ester, phosphate	258-053-2 01-2119980575-25	Eye Dam. 1; H318 Skin Sens. 1B; H317	3
alpha,alpha-dimethylbenzyl hydroperoxide	80-15-9 201-254-7 617-002-00-8 01-2119475796-19	Org. Perox. E; H242 Acute Tox. 4; H302 Acute Tox. 3; H331 Acute Tox. 4; H312 Skin Corr. 1B; H314 STOT RE 2; H373 Aquatic Chronic 2; H411  specific concentration limit Skin Corr. 1B; H314 >= 10 % Skin Irrit. 2; H315 3 - < 10 % Eye Dam. 1; H318 3 - < 10 % Eye Irrit. 2; H319 1 - < 3 % STOT SE 3; H335 >= 1 %	>= 0,25 - < 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.
- If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
If on skin, rinse well with water.  
If on clothes, remove clothes.

**ARALDITE® 2051 RESIN**

Version 1.0      Revision Date: 17.02.2021      SDS Number: 400000011295      Date of last issue: -  
Date of first issue: 17.02.2021

Print Date 11.08.2021

- 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.  
Do NOT induce vomiting.  
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 (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  
Sulphur oxides  
Hydrogen chloride

**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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 2051 RESIN

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.02.2021	400000011295	Date of first issue: 17.02.2021

Print Date 11.08.2021

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 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

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.

**ARALDITE® 2051 RESIN**

Version 1.0      Revision Date: 17.02.2021      SDS Number: 400000011295      Date of last issue: -  
Date of first issue: 17.02.2021

Print Date 11.08.2021

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.

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

Storage class (TRGS 510) : 3, Flammable liquids

Further information on storage stability : Stable under normal conditions.

**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
methyl methacrylate	80-62-6	TWA	50 ppm	2009/161/EU
Further information	Indicative			
		STEL	100 ppm	2009/161/EU
Further information	Indicative			
		AGW	50 ppm 210 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	2;(I)			
Further information	When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

**ARALDITE® 2051 RESIN**Version  
1.0Revision Date:  
17.02.2021SDS Number:  
400000011295Date of last issue: -  
Date of first issue: 17.02.2021

Print Date 11.08.2021

methacrylic acid	79-41-4	AGW	50 ppm 180 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	2;(I)			
Further information	When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
2,6-di-tert-butyl-p-cresol	128-37-0	AGW (Vapour and aerosols, inhalable fraction)	10 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	4;(II)			
Further information	When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
Silica, amorphous, fumed, cryst.-free	112945-52-5	AGW (Inhalable fraction)	4 mg/m3 (Silica)	DE TRGS 900
Further information	When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

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

Substance name	End Use	Exposure routes	Potential health effects	Value
2,6-di-tert-butyl-p-cresol	Workers	Inhalation	Long-term systemic effects	3,5 mg/m3
	Workers	Dermal	Long-term systemic effects	0,5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,86 mg/m3
	Consumers	Dermal	Long-term systemic effects	0,25 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,25 mg/kg bw/day
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate	Workers	Inhalation	Long-term systemic effects	7,04 mg/m3
	Workers	Dermal	Long-term systemic effects	1 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,74 mg/m3
	Consumers	Dermal	Long-term systemic effects	0,5 mg/kg bw/day
methacrylic acid	Workers	Inhalation	Long-term systemic effects	29,6 mg/m3
	Workers	Inhalation	Long-term local effects	88 mg/m3
	Workers	Dermal	Long-term systemic effects	4,25 mg/kg bw/day



**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

**ARALDITE® 2051 RESIN**Version  
1.0Revision Date:  
17.02.2021SDS Number:  
400000011295Date of last issue: -  
Date of first issue: 17.02.2021

Print Date 11.08.2021

	Consumers	Inhalation	Long-term systemic effects	6,3 mg/m3
	Consumers	Inhalation	Long-term local effects	6,55 mg/m3
	Consumers	Dermal	Long-term systemic effects	2,55 mg/kg bw/day
Silica, amorphous, fumed, cryst.-free	Workers	Inhalation	Long-term systemic effects	4 mg/m3

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

Substance name	Environmental Compartment	Value
2,6-di-tert-butyl-p-cresol	Fresh water	0,199 µg/l
Remarks:	Assessment Factors	
	Marine water	0,02 µg/l
	Assessment Factors	
	Sewage treatment plant	0,17 mg/l
	Assessment Factors	
	Fresh water sediment	0,0996 mg/kg dry weight (d.w.)
	Equilibrium method	
	Marine sediment	0,00996 mg/kg dry weight (d.w.)
	Equilibrium method	
	Soil	0,04769 mg/kg dry weight (d.w.)
	Equilibrium method	
	Oral	8,33 mg/kg
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate	Fresh water	0,068 mg/l
	Assessment Factors	
	Marine water	0,007 mg/l
	Assessment Factors	
	Sewage treatment plant	0,546 mg/l
	Assessment Factors	
	Fresh water sediment	0,481 mg/kg dry weight (d.w.)
	Equilibrium method	
	Marine sediment	0,048 mg/kg dry weight (d.w.)
	Equilibrium method	
	Soil	0,056 mg/kg dry

**ARALDITE® 2051 RESIN**

Version 1.0      Revision Date: 17.02.2021      SDS Number: 400000011295      Date of last issue: -  
Date of first issue: 17.02.2021

Print Date 11.08.2021

		weight (d.w.)
Equilibrium method		
methacrylic acid	Fresh water	0,82 mg/l
Assessment Factors		
Marine water		0,82 mg/l
Assessment Factors		
Freshwater - intermittent		0,82 mg/l
Assessment Factors		
Sewage treatment plant		10 mg/l
Assessment Factors		
Soil		1,2 mg/kg
Equilibrium method		

**8.2 Exposure controls**

**Personal protective equipment**

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

Hand protection : 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.

Remarks

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.

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines

Filter type : Organic vapour type (A)

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

Physical state : paste

Colour : off-white

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 2051 RESIN

Version 1.0      Revision Date: 17.02.2021      SDS Number: 400000011295      Date of last issue: -  
Date of first issue: 17.02.2021

Print Date 11.08.2021

Odour : like methacrylic acid

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 : No data is available on the product itself.

Flash point : 10 °C  
Method: estimated

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

Flammability (solid, gas) : No data is available on the product itself.

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

Density : 1,02 - 1,05 g/cm<sup>3</sup>

Solubility(ies)  
Water solubility : insoluble

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 : 40 - 70 Pas

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

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

**ARALDITE® 2051 RESIN**

Version      Revision Date:      SDS Number:      Date of last issue: -  
1.0          17.02.2021          400000011295      Date of first issue: 17.02.2021

Print Date 11.08.2021

**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**

No hazardous decomposition products are known.

Hazardous decomposition                :    carbon dioxide  
products                                        :    carbon monoxide

**SECTION 11: Toxicological information**

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

**Acute toxicity**

Acute oral toxicity - Product            :    Acute toxicity estimate : > 2 000 mg/kg  
Method: Calculation method

Acute inhalation toxicity -                :    Acute toxicity estimate : > 20 mg/l  
Product                                        :    Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

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

Acute toxicity (other routes of         :    No data available  
administration)

**Skin corrosion/irritation**

**Product:**

Method: OECD Test Guideline 431

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 2051 RESIN

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.02.2021	400000011295	Date of first issue: 17.02.2021

Print Date 11.08.2021

Result: Causes burns.

GLP: yes

### Serious eye damage/eye irritation

#### Components:

methacrylic acid:

Species: Rabbit

Assessment: Risk of serious damage to eyes.

Method: Draize Test

Result: Irreversible effects on the eye

GLP: no

2,6-di-tert-butyl-p-cresol:

Species: Rabbit

Assessment: No eye irritation

Method: OECD Test Guideline 405

Result: No eye irritation

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate:

Result: Corrosive

alpha,alpha-dimethylbenzyl hydroperoxide:

Assessment: Risk of serious damage to eyes.

Result: Irreversible effects on the eye

### Respiratory or skin sensitisation

#### Components:

methyl methacrylate:

Exposure routes: Skin

Species: Mouse

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 429

Result: May cause sensitisation by skin contact.

methacrylic acid:

Test Type: Buehler Test

Exposure routes: Skin

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

2,6-di-tert-butyl-p-cresol:

Exposure routes: Skin

Species: Humans

Result: Does not cause skin sensitisation.

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate:

Test Type: Local lymph node assay (LLNA)

Species: Mouse

Method: OECD Test Guideline 429

Result: The product is a skin sensitiser, sub-category 1B.

GLP: yes

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 2051 RESIN

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.02.2021	400000011295	Date of first issue: 17.02.2021

Print Date 11.08.2021

Assessment: No data available

### Germ cell mutagenicity

#### Components:

methyl methacrylate:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Salmonella typhimurium  
Method: OECD Test Guideline 471  
Result: negative

methacrylic acid:

Genotoxicity in vitro : Test Type: reverse mutation assay  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

2,6-di-tert-butyl-p-cresol:

Genotoxicity in vitro : Test Type: reverse mutation assay  
Metabolic activation: with and without metabolic activation  
Result: negative

: Test Type: Chromosome aberration test in vitro  
Metabolic activation: with and without metabolic activation  
Result: negative

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate:

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella tryphimurium 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: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

: 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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 2051 RESIN

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.02.2021	400000011295	Date of first issue: 17.02.2021

Print Date 11.08.2021

GLP: yes

### Components:

methacrylic acid:

Genotoxicity in vivo

: Test Type: in vivo assay  
Test species: Rat (male)  
Cell type: Somatic  
Application Route: Inhalation  
Exposure time: 2 h  
Dose: 0.4, 1.6, 2.8 and 4 mg/L  
Method: OECD Test Guideline 475  
Result: Not classified due to inconclusive data.  
GLP: no

Test Type: dominant lethal test  
Test species: Mouse (male)  
Application Route: Inhalation  
Exposure time: 6 h  
Dose: 0.405, 4.05 and 36.45 mg/L  
Method: OECD Test Guideline 478  
Result: negative  
GLP: no

2,6-di-tert-butyl-p-cresol:

Genotoxicity in vivo

: Application Route: Intraperitoneal injection  
Dose: 75 mg/kg  
Result: negative

Application Route: Oral  
Exposure time: 9 Months  
Dose: ca 750 mg/kg  
Result: negative

Germ cell mutagenicity-  
Assessment

: No data available

### **Carcinogenicity**

#### Components:

methyl methacrylate:

Species: Rat, male and female

Application Route: Oral

Exposure time: 2 Years

Dose: 6, 60, 2000 ppm

Frequency of Treatment: once daily

No observed adverse effect level: 90,3 mg/kg bw/day

Result: negative

methacrylic acid:

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 2051 RESIN

Version 1.0      Revision Date: 17.02.2021      SDS Number: 400000011295      Date of last issue: -  
Date of first issue: 17.02.2021

Print Date 11.08.2021

Species: Rat, male and female  
Application Route: inhalation (vapour)  
Exposure time: 102 weeks  
Frequency of Treatment: 5 days/week  
No observed adverse effect level:  $\geq 2,05$  mg/kg body weight  
Method: OECD Test Guideline 451

Species: Mouse, male and female  
Application Route: inhalation (vapour)  
Exposure time: 102 weeks  
Dose: ca. 2.05 and 4.1 mg/L  
Frequency of Treatment: 5 days/week  
Lowest observed adverse effect level: ca. 2,05 mg/l  
Method: OECD Test Guideline 451

2,6-di-tert-butyl-p-cresol:  
Species: Rat, male and female  
Application Route: Oral  
Result: negative

Carcinogenicity - Assessment : No data available

### Reproductive toxicity

#### Components:

methacrylic acid:  
Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 0, 50, 150, 450 mg/kg/day  
General Toxicity - Parent: No observed adverse effect level:  
50 mg/kg body weight  
Fertility: No observed adverse effect level F1: 400 mg/kg body  
weight  
Symptoms: Reduced body weight  
Method: OECD Test Guideline 416  
GLP: yes

2,6-di-tert-butyl-p-cresol:  
Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 25/100/500 mg/kg bw/day  
General Toxicity - Parent: No observed adverse effect level:  
100 mg/kg body weight  
General Toxicity F1: No observed adverse effect level: 25  
mg/kg body weight  
Result: negative

#### Components:

methyl methacrylate:  
Effects on foetal development : Species: Rat  
Application Route: Inhalation



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

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## ARALDITE® 2051 RESIN

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.02.2021	400000011295	Date of first issue: 17.02.2021

Print Date 11.08.2021

Dose: 99, 304, 1178 ppm  
Teratogenicity: No observed adverse effect concentration F1:  
8 300 mg/m<sup>3</sup>  
Embryo-foetal toxicity: No observed adverse effect  
concentration F1: 8 300 mg/m<sup>3</sup>  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

methacrylic acid:

Test Type: Pre-natal  
Species: Rat, female  
Application Route: Inhalation  
Dose: 0, 50, 100, 200 or 300 ppm  
Duration of Single Treatment: 14 d  
Frequency of Treatment: 7 days/week  
General Toxicity Maternal: No observed adverse effect level:  
200 ppm  
Developmental Toxicity: No observed adverse effect level: >=  
300 ppm  
Embryo-foetal toxicity: No observed adverse effect  
concentration F1: 300 ppm  
Method: OECD Test Guideline 414  
Result: No effects on fertility and early embryonic  
development were detected.

Test Type: Pre-natal  
Species: Rabbit, male and female  
Application Route: Oral  
Dose: 50, 150, 450 milligram per kilogram  
Duration of Single Treatment: 23 d  
Frequency of Treatment: 7 days/week  
General Toxicity Maternal: No observed adverse effect level:  
50 mg/kg body weight  
Developmental Toxicity: No observed adverse effect level F1:  
450 mg/kg body weight  
Result: No effects on fertility and early embryonic  
development were detected.

2,6-di-tert-butyl-p-cresol:

Test Type: Pre-natal  
Species: Mouse, female  
Application Route: Oral  
Duration of Single Treatment: 7 d  
General Toxicity Maternal: No observed adverse effect level:  
240 mg/kg body weight  
Developmental Toxicity: No observed adverse effect level:  
800 mg/kg body weight  
Target Organs: spleen, Kidney

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate:

Test Type: Pre-natal  
Species: Rat, females  
Application Route: Oral  
Dose: 100/300/1000 mg/kg bw/day  
General Toxicity Maternal: No observed adverse effect level:

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 2051 RESIN

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.02.2021	400000011295	Date of first issue: 17.02.2021

Print Date 11.08.2021

300 mg/kg body weight  
Developmental Toxicity: No-observed-effect level: 1 000  
mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes

Reproductive toxicity - Assessment : No data available

### STOT - single exposure

#### Components:

methyl methacrylate:  
Exposure routes: Inhalation  
Target Organs: Respiratory Tract  
Assessment: May cause respiratory irritation.

methacrylic acid:  
Exposure routes: Inhalation  
Target Organs: Respiratory Tract  
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

### STOT - repeated exposure

#### Components:

alpha,alpha-dimethylbenzyl hydroperoxide:  
Exposure routes: Inhalation  
Target Organs: Lungs  
Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

### Repeated dose toxicity

#### Components:

methyl methacrylate:  
Species: Rat, male and female  
NOAEL: 124,1 mg/kg  
Application Route: oral (drinking water)  
Exposure time: 2 years Number of exposures: daily  
Dose: 6, 60, 2000 ppm

methacrylic acid:  
Species: Rat, male and female  
NOEC: 352 - 1232  
Application Route: inhalation (vapour)  
Test atmosphere: vapour  
Exposure time: 90 d Number of exposures: 6 h  
Dose: 70/352/1232 mg/m<sup>3</sup>  
Subsequent observation period: 5 days/week  
Method: OECD Test Guideline 413  
GLP: yes

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 2051 RESIN

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.02.2021	400000011295	Date of first issue: 17.02.2021

Print Date 11.08.2021

2,6-di-tert-butyl-p-cresol:  
Species: Pig, male and female  
NOAEL:  $\geq 61$  mg/kg  
Application Route: oral (feed)  
Exposure time: daily Method: Chronic toxicity

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate:  
Species: Rat, male and female  
NOEL: 100 mg/kg  
Application Route: oral (gavage)  
Exposure time: 28 d Number of exposures: 7 days/week  
Dose: 0, 100, 300, or 1000 MKD  
Method: OECD Test Guideline 407  
GLP: yes  
Target Organs: Kidney, Stomach

Repeated dose toxicity - Assessment : No data available

### 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

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

**ARALDITE® 2051 RESIN**

Version 1.0      Revision Date: 17.02.2021      SDS Number: 400000011295      Date of last issue: -  
Date of first issue: 17.02.2021

Print Date 11.08.2021

**Toxicology, Metabolism, Distribution**

No data available

**Neurological effects**

No data available

**Further information**

**Product:**

Remarks: Solvents may degrease the skin.

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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Components:**

methyl methacrylate:

Toxicity to fish : LC50 : 191 mg/l  
Exposure time: 96 h  
  
LC50 (Oncorhynchus mykiss (rainbow trout)): > 79 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: Fish Early-life Stage Toxicity Test

Toxicity to daphnia and other : EC50 : 69 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : EC50 : > 110 mg/l  
plants Exposure time: 72 h

Toxicity to daphnia and other : NOEC: 37 mg/l  
aquatic invertebrates Exposure time: 21 d  
(Chronic toxicity) Species: Daphnia magna (Water flea)  
Test Type: flow-through test  
Method: OECD Test Guideline 211

methacrylic acid:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 85 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: flow-through test  
Test substance: Fresh water  
Method: Fish Acute Toxicity Test  
GLP: yes  
Remarks: Toxic to aquatic organisms.

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 130 mg/l  
aquatic invertebrates End point: Immobilization  
Exposure time: 48 h  
Test Type: flow-through test  
Analytical monitoring: yes

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 2051 RESIN

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.02.2021	400000011295	Date of first issue: 17.02.2021

Print Date 11.08.2021

Test substance: Fresh water  
Method: Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids  
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Selenastrum capricornutum (green algae)): 45 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 201  
GLP: yes

NOEC (Selenastrum capricornutum (green algae)): 8,2 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to microorganisms : EC50 (Pseudomonas putida): 270 mg/l  
Exposure time: 16,5 h  
Test Type: static test  
Analytical monitoring: no  
Test substance: Fresh water  
Method: DIN 38 412 Part 8  
GLP: yes

Toxicity to fish (Chronic toxicity) : NOEC: 10 mg/l  
Exposure time: 35 d  
Species: Brachydanio rerio (zebrafish)  
Test Type: flow-through test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 210  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 53 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: flow-through test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 211  
GLP: yes

2,6-di-tert-butyl-p-cresol:  
Toxicity to fish : LC50 (Fish): 0,199 mg/l  
Exposure time: 96 h  
Test substance: Fresh water  
Method: QSAR

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,48 mg/l  
End point: Immobilization

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 2051 RESIN

Version 1.0      Revision Date: 17.02.2021      SDS Number: 400000011295      Date of last issue: -  
Date of first issue: 17.02.2021

Print Date 11.08.2021

Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 0,24 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,24 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201

Toxicity to microorganisms : ErC50 (activated sludge): 1,7 mg/l  
Exposure time: 24 h  
Test Type: static test

Toxicity to fish (Chronic toxicity) : NOEC: 0,053 mg/l  
Exposure time: 30 d  
Species: Oryzias latipes (Orange-red killifish)  
Test substance: Fresh water  
Method: OECD Test Guideline 210

NOEC: >= 23,8 mg/l  
Exposure time: 70 d  
Species: Fish  
Test substance: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50: 0,096 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test substance: Fresh water  
Method: OECD Test Guideline 211

NOEC: 0,069 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test substance: Fresh water  
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1  
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 112 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 2051 RESIN

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.02.2021	400000011295	Date of first issue: 17.02.2021

Print Date 11.08.2021

- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 68 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): > 120 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes
- NOEC (Pseudokirchneriella subcapitata (algae)): > 30 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes
- alpha,alpha-dimethylbenzyl hydroperoxide:
- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3,9 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: no  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 18,84 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 3,1 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201

### 12.2 Persistence and degradability

#### Components:

methyl methacrylate:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: > 60 %  
Exposure time: 28 d

methacrylic acid:

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 3 mg/l  
Result: Readily biodegradable.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 2051 RESIN

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.02.2021	400000011295	Date of first issue: 17.02.2021

Print Date 11.08.2021

Biodegradation: 86 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
GLP: yes

2,6-di-tert-butyl-p-cresol:

Biodegradability : Result: Not biodegradable

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate:

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge, non-adapted  
Concentration: 54,6 mg/l  
Result: Readily biodegradable.  
Biodegradation: 91,8 %  
Related to: Dissolved organic carbon (DOC)  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: yes

alpha,alpha-dimethylbenzyl hydroperoxide:

Biodegradability : Result: Not readily biodegradable.

### 12.3 Bioaccumulative potential

#### Components:

methyl methacrylate:

Bioaccumulation : Bioconcentration factor (BCF): 3

Partition coefficient: n-  
octanol/water : log Pow: 1,38

methacrylic acid:

Partition coefficient: n-  
octanol/water : log Pow: 0,93 (22 °C)  
pH: 2,2

2,6-di-tert-butyl-p-cresol:

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Exposure time: 28 d  
Bioconcentration factor (BCF): 330 - 1 800  
Method: flow-through test

Partition coefficient: n-  
octanol/water : log Pow: 5,2

### 12.4 Mobility in soil

#### Components:

2,6-di-tert-butyl-p-cresol:

Distribution among  
environmental compartments : Koc: 8183

### 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



**ARALDITE® 2051 RESIN**

Version 1.0      Revision Date: 17.02.2021      SDS Number: 400000011295      Date of last issue: -  
Date of first issue: 17.02.2021

Print Date 11.08.2021

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 : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
Dispose of as hazardous waste in compliance with local and national regulations.  
Dispose of contents/ container to an approved waste disposal plant.

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**

**IATA**

**14.1 UN number or ID number** : UN 2924  
**14.2 UN proper shipping name** : Flammable liquid, corrosive, n.o.s.  
(METHYL METHACRYLATE, METHACRYLIC ACID)  
**14.3 Transport hazard class(es)** : 3  
Subsidiary risk : 8  
**14.4 Packing group** : II  
Labels : Flammable Liquids, Corrosive  
Packing instruction (cargo) : 363

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 2051 RESIN

Version 1.0      Revision Date: 17.02.2021      SDS Number: 400000011295      Date of last issue: -  
Date of first issue: 17.02.2021

Print Date 11.08.2021

aircraft)  
Packing instruction : 352  
(passenger aircraft)

### IMDG

**14.1 UN number or ID number** : UN 2924  
**14.2 UN proper shipping name** : FLAMMABLE LIQUID, CORROSIVE, N.O.S.  
(METHYL METHACRYLATE, METHACRYLIC ACID)  
**14.3 Transport hazard class(es)** : 3  
Subsidiary risk : 8  
**14.4 Packing group** : II  
Labels : 3 (8)  
EmS Code : F-E, S-C  
**14.5 Environmental hazards**  
Marine pollutant : no

### ADR

**14.1 UN number or ID number** : UN 2924  
**14.2 UN proper shipping name** : FLAMMABLE LIQUID, CORROSIVE, N.O.S.  
(METHYL METHACRYLATE, METHACRYLIC ACID)  
**14.3 Transport hazard class(es)** : 3  
Subsidiary risk : 8  
**14.4 Packing group** : II  
Labels : 3 (8)  
**14.5 Environmental hazards**  
Environmentally hazardous : no

### RID

**14.1 UN number or ID number** : UN 2924  
**14.2 UN proper shipping name** : FLAMMABLE LIQUID, CORROSIVE, N.O.S.  
(METHYL METHACRYLATE, METHACRYLIC ACID)  
**14.3 Transport hazard class(es)** : 3  
Subsidiary risk : 8  
**14.4 Packing group** : II  
Labels : 3 (8)  
**14.5 Environmental hazards**  
Environmentally hazardous : no

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

Not applicable for product as supplied.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 2051 RESIN

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.02.2021	400000011295	Date of first issue: 17.02.2021

Print Date 11.08.2021

### 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).

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

Water contaminating class (Germany) : WGK 1 slightly hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

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 : Not 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 : 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 : All substances listed as active on the TSCA inventory

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 2051 RESIN

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.02.2021	400000011295	Date of first issue: 17.02.2021

Print Date 11.08.2021

### 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.
H242	: Heating may cause a fire.
H302	: Harmful if swallowed.
H311	: Toxic in contact with skin.
H312	: Harmful in contact with skin.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H331	: Toxic if inhaled.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H373	: May cause damage to organs through prolonged or repeated exposure.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Chronic aquatic toxicity
Eye Dam.	: Serious eye damage
Flam. Liq.	: Flammable liquids
Org. Perox.	: Organic peroxides
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
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
DE TRGS 900	: Germany. TRGS 900 - Occupational exposure limit values.
2009/161/EU / TWA	: Limit Value - eight hours
2009/161/EU / STEL	: Short term exposure limit
DE TRGS 900 / AGW	: Time Weighted Average

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 2051 RESIN

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.02.2021	400000011295	Date of first issue: 17.02.2021

Print Date 11.08.2021

### Further information

#### Classification of the mixture:

Flam. Liq. 2	H225
Skin Corr. 1B	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
STOT SE 3	H335
Aquatic Chronic 3	H412

#### Classification procedure:

Based on product data or assessment
Based on product data or assessment
Based on product data or assessment
Calculation method
Calculation method
Calculation method

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