## SAFETY DATA SHEET



# Neogel® VE 8393-W-xxx

# Section 1. Chemical product and company identification

GHS product identifier : Neogel® VE 8393-W-xxxx
GHS product identifier : Neogel® VE 8393-W-xxxx

Product code : 012997WW19411
Chemical formula : Not applicable.
Other means of identification : Not available.
Product type : Liquid.

Recommended use : Resin system used in the production of reinforced plastic laminates.

Supplier : Resin system used in the production of reinforced plastic laminates.

Fel: +86 25 85493888
Zone F, 3/F, Block A www.aocresins.com

Fenghuo Building

No. 88 Yun Long Shan Road

Jian Ye District

Nanjing, Jiangsu Province 210019 P.R. China

e-mail address of person responsible for this SDS

: product.safety@aocresins.com

(Communication in English only please)

**Emergency telephone** 

number

Mational Emergency Response Telephone Number for Chemical Accident (signed agreement) 0086-532-83889090 (24h)

# Section 2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 and GB 30000-2013

### **Emergency overview**

Liquid. [clear]

Yellowish

Characteristic.

Mammable liquid and vapour. Causes serious eye irritation.

Causes skin irritation.

May cause an allergic skin reaction.

May damage fertility.

Suspected of damaging the unborn child.

Suspected of causing cancer. May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure. (hearing organs)

Toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

Gas/vapour is heavier than air and may travel along the floor to a source of ignition and flash back.

Set medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Call a POISON CENTER or physician if you feel unwell. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention.

See Section 12 for environmental precautions.

Classification of the : FLAMMABLE LIQUIDS - Category 3

substance or mixture ACUTE TOXICITY (inhalation) - Category 4
SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

SKIN SENSITISATION - Category 1 CARCINOGENICITY - Category 2

REPRODUCTIVE TOXICITY (Fertility) - Category 2
REPRODUCTIVE TOXICITY (Unborn child) - Category 2

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract

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irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1

SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

#### **GHS label elements**







Signal word : Danger

**Hazard statements** H226 - Flammable liquid and vapour.

H319 - Causes serious eye irritation.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H361 - Suspected of damaging fertility or the unborn child.

H351 - Suspected of causing cancer. H335 - May cause respiratory irritation.

H372 - Causes damage to organs through prolonged or repeated exposure.

(hearing organs)

H401 - Toxic to aquatic life.

H412 - Harmful to aquatic life with long lasting effects.

#### **Precautionary statements - Code**

Prevention : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves: 4 - 8 hours (breakthrough time): fluor rubber (Viton) (0.70 mm); < 1 hour (breakthrough time): Chloroprene, Nitril rubber (0.4 mm). Wear

eye or face protection. Wear protective clothing.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling

equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P240 - Ground container and receiving equipment.

P233 - Keep container tightly closed.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P260 - Do not breathe vapour.

P270 - Do not eat, drink or smoke when using this product.

P264 - Wash hands thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

Response : P314 - Get medical attention if you feel unwell.

P308 + P313 - IF exposed or concerned: Get medical attention.

P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable

for breathing. Call a POISON CENTER or physician if you feel unwell.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water or shower.

P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take

off contaminated clothing and wash it before reuse.

P333 + P313 - If skin irritation or rash occurs: Get medical attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical attention.

Storage P405 - Store locked up.

> P233 - Keep container tightly closed. P403 - Store in a well-ventilated place.

P235 - Keep cool.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Physical/chemical hazards Fammable liquid and vapour. Gas/vapour is heavier than air and may travel along the

floor to a source of ignition and flash back.

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Human health hazards : ✓auses serious eye irritation. Causes skin irritation. May cause an allergic skin

reaction. May damage fertility. Suspected of damaging the unborn child. Suspected of causing cancer. May cause respiratory irritation. Causes damage to organs

through prolonged or repeated exposure. (hearing organs)

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

reduced foetal weight increase in foetal deaths skeletal malformations

**Skin contact** : Adverse symptoms may include the following:

irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

**Ingestion**: Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Environmental hazards : Foxic to aquatic life. Harmful to aquatic life with long lasting effects.

Other hazards which do not result in classification

Gas/vapour is heavier than air and may travel along the floor to a source of ignition

and flash back.

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of identification : Not available.

Ingredient name	%	CAS number
styrene [stable]	25 - 50	100-42-5
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-	10 - 25	36425-15-7
2,3-epoxypropane, reaction products with methacrylic acid		
Aluminum hydroxide	5 - 10	21645-51-2
Cobalt bis(2-ethylhexanoate)	<1	136-52-7

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open

airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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Skin contact: Wash with plenty of soap and water. Remove contaminated clothing and shoes.

Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean

shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and

keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight

clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : Harmful if inhaled. May cause respiratory irritation.

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

**Eyes** : Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

reduced foetal weight increase in foetal deaths skeletal malformations

**Skin** : Adverse symptoms may include the following:

irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

**Ingestion** : Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

# Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with

water before removing it, or wear gloves.

See toxicological information (Section 11)

# Section 5. Firefighting measures

Extinguishing media

Suitable : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Not suitable : Do not use water jet.

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# Specific hazards arising from the chemical

Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. This material is toxic to aquatic life. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Gas/vapour is heavier than air and may travel along the floor to a source of ignition and flash back.

# Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide metal oxide/oxides (dense) black smoke aldehydes organic acids

halogenated compounds

Special precautions for firefighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters Remark

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

: None.

# Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

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

Small spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

Precautions for safe handling

Protective measures

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Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

To not store above the following temperature: 30°C (86°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store in original container, protected from direct sunlight. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Keep away from heat and direct sunlight.

# Section 8. Exposure controls/personal protection

#### Control parameters

### Occupational exposure limits

Ingredient name	Exposure limits
styrene [stable]	GBZ 2.1 (China, 4/2007). Absorbed through skin.
	PC-TWA: 50 mg/m³ 8 hours. PC-STEL: 100 mg/m³ 15 minutes.
Aluminum hydroxide	ACGIH TLV (United States, 3/2019). TWA: 1 mg/m³ 8 hours. Form: Respirable
	fraction
Cobalt bis(2-ethylhexanoate)	ACGIH TLV (United States, 3/2019). Skin sensitiser. Inhalation sensitiser. TWA: 0.02 mg/m³, (as Co) 8 hours.

# Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

# Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety glasses with side shields.

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**Skin protection** 

Hand protection Themical-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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the

protection time of the gloves cannot be accurately estimated. 4 - 8 hours

(breakthrough time): fluor rubber (Viton) (0.70 mm) < 1 hour (breakthrough time): Chloroprene, Nitril rubber (0.4 mm)

Personal protective equipment for the body should be selected based on the task **Body protection** 

being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing

should include anti-static overalls, boots and gloves.

Repropriate footwear and any additional skin protection measures should be selected Other skin protection

based on the task being performed and the risks involved and should be approved by

a specialist before handling this product.

Respiratory protection Based on the hazard and potential for exposure, select a respirator that meets the

appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important

aspects of use.

Remarks : Replace damaged gloves.

# Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid. [clear] Colour Yellowish Odour Characteristic. **Odour threshold** : 0.15 to 25 ppm Not applicable. **Melting point** : Not available. **Boiling point** : 145°C (293°F) Softening range : Not available.

: Closed cup: 34°C (93.2°F) [(estimate)] Flash point

**Evaporation rate** : 12.4 (butyl acetate = 1)

: Combustible when exposed to heat or flame. Flammability (solid, gas)

Lower and upper explosive

: Lower: 1.1% (flammable) limits Upper: 6.1% Vapour pressure 0.67 kPa Vapour density 3.6 [Air = 1]

Relative density 1.1

Density (g/cm³) : 1.1 g/cm³ (23°C) **Bulk density** : Not available.

Solubility Insoluble in the following materials: cold water and hot water.

Solubility in water : Not available. Partition coefficient: n-: Not available.

octanol/water

temperature

**Auto-ignition temperature** : 490°C (914°F) **Decomposition temperature** : Not available. Conductivity : Not available. Molecular weight Not applicable. Instability temperature Not available. Minimum ignition Not available.

Minimum ignition energy : Not available. **VOC** content : Not available.

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**Dust explosion class** 

**Critical pressure Critical temperature**  : Not available. Not available.

**Viscosity** 

Dynamic (room temperature): 30000 to 36000 mPa·s (30000 to 36000 cP)

Kinematic (room temperature): >272.73 cm<sup>2</sup>/s (>27273 cSt)

Kinematic (40°C (104°F)): >0.205 cm<sup>2</sup>/s (>20.5 cSt)

# Section 10. Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. Reactivity

**Chemical stability** The product is stable.

Stable under recommended storage and handling conditions (see Section 7).

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.

Incompatible materials Reactive or incompatible with the following materials:

oxidizing materials

**Hazardous decomposition** 

products

Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

# Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
styrene [stable]	LC50 Inhalation Vapour LD50 Oral	Rat Rat	11800 mg/m³ 5000 mg/kg	4 hours
Aluminum hydroxide	LC50 Inhalation Dusts and mists LD50 Oral	Rat Rat	>2.3 mg/l >2000 mg/kg	4 hours

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
styrene [stable]	Respiratory - Irritant	Mammal -	-	-	-
		species			
		unspecified			
	Skin - Irritant	Rabbit	=	_	-
	Eyes - Irritant	Rabbit	-	_	-
Cobalt bis(2-ethylhexanoate)	Eyes - Irritant	Rabbit	-	-	-

### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
Aluminum hydroxide	skin	Guinea pig	Not sensitizing
	Respiratory	Mouse	Not sensitizing

# **Mutagenicity**

Not available.

# Carcinogenicity

Not available.

#### Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
Aluminum hydroxide	-	-	-	Rat	Oral: 1075 mg/ kg LOAEL	-

#### **Teratogenicity**

Not available.

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#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
styrene [stable]	Category 3	Not applicable.	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
styrene [stable]	Category 1	Inhalation	hearing organs

#### **Aspiration hazard**

Name	Result
styrene [stable]	ASPIRATION HAZARD - Category 1

Information on likely routes

of exposure

: Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Harmful if inhaled. May cause respiratory irritation.

Skin contact : Causes skin irritation. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation Adverse symptoms may include the following:

respiratory tract irritation

coughing

reduced foetal weight increase in foetal deaths skeletal malformations

Skin contact : Adverse symptoms may include the following:

irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

Potential immediate

: Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : Causes damage to organs through prolonged or repeated exposure. Once sensitized,

a severe allergic reaction may occur when subsequently exposed to very low levels.

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Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity: No known significant effects or critical hazards.Teratogenicity: Suspected of damaging the unborn child.Developmental effects: No known significant effects or critical hazards.

Fertility effects : Suspected of damaging fertility.

## **Numerical measures of toxicity**

## **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Meogel® VE 8393-W-xxx		8660.1	14956.6	N/A	28.1
N/A styrene [stable] N/A 4,4'-lsopropylidenediphenol, oligomeric reapproducts with 1-chloro-2,3-epoxypropane, reac	etiðn	5000 2500	N/A N/A	N/A N/A	11.8 N/A
RIGHHCTS With Methacrylic acid	2500	N/A	N/A	N/A	N/A

# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
styrene [stable]	Acute EC50 4.9 mg/l	Algae	72 hours
	Acute EC50 4700 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 4020 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic EC <sub>10</sub> 0.28 mg/l Fresh water	Algae	96 hours
	Chronic NOEC 1.01 mg/l Fresh water	Daphnia	21 days
Cobalt bis(2-ethylhexanoate)	Acute EC50 0.197 mg/l Fresh water	Algae	72 hours
	Acute EC50 2.32 mg/l Marine water	Daphnia	72 hours
	Acute LC50 1.5 mg/l Fresh water	Fish	96 hours
	Chronic EC50 0.052 mg/l Fresh water	Algae	7 days
	Chronic NOEC 0.00755 mg/l Fresh	Daphnia	28 days
	water		
	Chronic NOEC 0.35 mg/l Fresh water	Fish	34 days

## Persistence/degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
styrene [stable] Cobalt bis(2-ethylhexanoate)	-		Readily Readily

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
styrene [stable]	2.96	13.49	low
Cobalt bis(2-ethylhexanoate)	-	15600	high

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

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#### **Disposal methods**

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	UN	IMDG	IATA
UN number	UN1866	UN1866	UN1866
UN proper shipping name	RESIN SOLUTION	RESIN SOLUTION	Resin solution
Transport hazard class(es)	3	3	3
Packing group	III	III	III
Environmental hazards	No.	No.	No.

**Additional information** 

UN : Special provisions 223

<u>Viscous liquid exception</u> This class 3 viscous liquid is not subject to regulation in

packagings up to 450 L according to 2.3.2.5.1.

IMDG : **E**mergency schedules F-E, \_S-E\_

Special provisions 223, 955

Viscous liquid exception This class 3 viscous liquid is not subject to regulation in

packagings up to 450 L according to 2.3.2.5.

IATA : Quantity limitation Passenger and Cargo Aircraft: 60 L. Packaging instructions:

355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities -

Passenger Aircraft: 10 L. Packaging instructions: Y344.

**Special provisions** A3

Special precautions for user

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

**Extinguishing media** 

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

Incompatible materials

: Reactive or incompatible with the following materials:

oxidizing materials

Transport in bulk according to Annex II of Marpol and the

: Not available.

**IBC Code** 

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# **Section 15. Regulatory information**

#### List of Goods banned for Importing

None of the components are listed.

#### **Inventory of Hazardous Chemicals**

Ingredient name	CAS number	Status	Reference number
Styrene monomer	100-42-5	Listed	96

#### **List of Goods banned for Exporting**

None of the components are listed.

#### List of Toxic Chemicals Severely Restricted for Importing & Exporting by China

None of the components are listed.

### **Inventory of Highly Toxic Chemicals**

None of the components are listed.

#### **Catalogue of Hazardous Chemicals of Priority Management**

Styrene Listed

### **International regulations**

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Ingredient name	List name	Status
Not listed.		

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Ingredient name	List name	Status
Not listed.		

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Ingredient name	List name	Status
Not listed.		

# Section 16. Other information

<u>History</u>

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revision

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**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

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#### Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 3	On basis of test data
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITISATION - Category 1	Calculation method
CARCINOGENICITY - Category 2	Calculation method
REPRODUCTIVE TOXICITY (Fertility) - Category 2	Calculation method
REPRODUCTIVE TOXICITY (Unborn child) - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract	Calculation method
irritation) - Category 3	
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1	Calculation method
SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 2	Calculation method
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	Calculation method

References : Not available.

Indicates information that has changed from previously issued version.

Responsible name : MSDS:

DSM Resins - Regulatory Affairs Department

P.O. Box 615, 8000 AP Zwolle

The Netherlands

#### Notice to reader

The information contained in the Safety Data Sheet is based on our data available on the date of publication. The information is intended to aid the user in controlling the handling risks; it is not to be construed as a warranty or specification of the product quality. The information may not be or may not altogether be applicable to combinations of the product with other substances or to particular applications.

The user is responsible for ensuring that appropriate precautions are taken and for satisfying themselves that the data

The user is responsible for ensuring that appropriate precautions are taken and for satisfying themselves that the data are suitable and sufficient for the product's intended purpose. In case of any unclarity we advise consulting the supplier or an expert.

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