SAFETY DATA SHEET



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Neomould® 1982-W-1

Section 1. Chemical product and company identification

GHS product identifier	:	Neomould® 1982-W-1	
GHS product identifier	:	Neomould® 1982-W-1	
Product code	:	013736WW27225	
Chemical formula	:	Not applicable.	
Other means of identification	:	Not available.	
Product type	:	Liquid.	
Recommended use	:	Resin system used in the production of rei	nforced plastic laminates.
Supplier	:	Mining AOC Resins Co., Ltd. Zone F, 3/F, Block A Fenghuo Building No. 88 Yun Long Shan Road Jian Ye District Nanjing, Jiangsu Province 210019 P.R. China	Fel: +86 25 85493888 www.aocresins.com
e-mail address of person responsible for this SDS	:	product.safety@aocresins.com	(Communication in English only please)
Emergency telephone number	:	National Emergency Response Telephone Number for Chemical Accident (signed agreement) 0086-532-83889090 (24h)	

Section 2. Hazards identification

Date of issue : 27 February 2020

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

Suspected of causing ca May cause respiratory in Causes damage to orga Toxic to aquatic life. Harmful to aquatic life w Gas/vapour is heavier th Get medical attention if y POISON CENTER or ph unwell. If skin irritation c	wed. tion. fertility or the unborn child. ncer. itation. ns through prolonged or repeated exposure. (hearing organs)
Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 5 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 REPRODUCTIVE TOXICITY (Fertility) - Category 2 REPRODUCTIVE TOXICITY (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (hearing organs) -

Version:4



	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.
	 H303 - May be harmful if swallowed. H319 - Causes serious eye irritation. H315 - Causes skin irritation. 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): Nitril rubber / Chloroprene (0.2 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.
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. P301 + P312 - IF SWALLOWED: 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. P332 + P313 - If skin irritation 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	: Flammable liquid and vapour. Gas/vapour is heavier than air and may travel along the floor to a source of ignition and flash back.



Human health hazards	 May be harmful if swallowed. Causes serious eye irritation. Causes skin irritation. Suspected of damaging fertility or 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 phys	ical, 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	: Toxic 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: MixtureOther means of identification: Not available.

Ingredient name	%	CAS number
Aluminum hydroxide	25 - 50	21645-51-2
styrene [stable]	25 - 50	100-42-5
2-Butenoic acid, polymer with ethenyl acetate	1 - 5	25609-89-6
Benzene, ethenyl-, homopolymer	1 - 5	9003-53-6
1,4-dihydroxybenzene	<1	123-31-9

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.	



Skin contact	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. 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. If necessary, call a poison center or physician. 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/e	ffects, acute and delayed
Potential acute health effect	<u>8</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes skin irritation.
Ingestion	: May be harmful if swallowed.
<u>Over-exposure signs/sympto</u>	<u>ms</u>
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 nausea or vomiting
Indication of immediate med	ical 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.
See toxicological informatio	n (Section 11)

Section 5. Firefighting measures

<u>Extinguishing media</u>	
Suitable	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Not suitable	: Do not use water jet.



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
Special precautions for fire- fighters	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	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Remark	: None.
Remarks	: Combustible when exposed to heat or flame.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training. For non-emergency Evacuate surrounding areas. Keep unnecessary and unprotected personnel from personnel 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 nonemergency personnel". : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and **Environmental precautions** 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. Absorb spill with inert material (e.g. dry sand or earth) and place in a chemical waste container. : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and Large spill 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 noncombustible, 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	Put on appropriate personal protective equipment (see Section 8). 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	: Store between the following temperatures: 15 to 30°C (59 to 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.
Remarks	: shake/mix before use

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name		Exposure limits	
Muminum hydroxide		ACGIH TLV (United States, 3/2019). TWA: 1 mg/m ³ 8 hours. Form: Respirable fraction	
styrene [stable]		GBZ 2.1 (China, 4/2007). Absorbed through skin. PC-TWA: 50 mg/m ³ 8 hours.	
1,4-dihydroxybenzene		PC-STEL: 100 mg/m ³ 15 minutes. GBZ 2.1 (China, 4/2007). PC-TWA: 1 mg/m ³ 8 hours. PC-STEL: 2 mg/m ³ 15 minutes.	
Appropriate engineering : controls	or other engineering controls to keep w any recommended or statutory limits. T	e process enclosures, local exhaust ventilation vorker exposure to airborne contaminants below The engineering controls also need to keep gas, ny lower explosive limits. Use explosion-proof	
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.		
ndividual 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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safet showers are close to the workstation location.		
Eye/face protection : Skin protection	Safety glasses with side shields.		



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. 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): Nitril rubber / Chloroprene (0.2 mm)
Body protection	: Personal protective equipment for the body should be selected based on the task 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 anti- static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected 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.

Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid. [Hazy liquid.]
Colour	: Yellowish-brown.
Odour	: typical
Odour threshold	: 0.15 to 25 ppm
рН	: 7 [Conc. (% w/w): 0.02%]
Melting point	: <25°C (<77°F)
Boiling point	: 145°C (293°F)
Softening range	: Not available.
Flash point	: Closed cup: 33°C (91.4°F) [Pensky-Martens.]
Evaporation rate	: 12.4 (butyl acetate = 1)
Flammability (solid, gas)	: Combustible when exposed to heat or flame.
Lower and upper explosive (flammable) limits	: Lower: 1.1% Upper: 6.1%
Vapour pressure	: 0.67 kPa
Vapour density	: 3.6 [Air = 1]
Relative density	: 1.35
Density (g/cm³)	: 1.35 g/cm³ (23°C)
Bulk density	: 1100 kg/m ³ (Temperature: 23 °C)
Solubility	: Insoluble in the following materials: cold water and hot water.
Solubility in water	: <0.02 g/100 ml (23°C)
Solubility at room temperature	: <0.02 g/l
Partition coefficient: n- octanol/water	: >2
Auto-ignition temperature	: 490°C (914°F)
Decomposition temperature	: Not available.
Conductivity	: Not available.
Molecular weight	: Not applicable.
Instability temperature	: Not available.
Minimum ignition temperature	: Not available.
Minimum ignition energy	: Not available.
VOC content	: Not available.



Dust explosion class	:
Critical pressure	: Not available.
Critical temperature	: Not available.
Viscosity	 Dynamic (room temperature): 720 to 800 mPa⋅s (720 to 800 cP) Kinematic (room temperature): >5.3 cm²/s (>530 cSt) Kinematic (40°C (104°F)): >0.205 cm²/s (>20.5 cSt)

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
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.
	Keep away from heat/sparks/open flames/hot surfaces No smoking.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
	Strong acids
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
Aluminum hydroxide	LC50 Inhalation Dusts and mists	Rat	>2.3 mg/l	4 hours
-	LD50 Oral	Rat	>2000 mg/kg	-
styrene [stable]	LC50 Inhalation Vapour	Rat	11800 mg/m ³	4 hours
	LD50 Oral	Rat	5000 mg/kg	-
2-Butenoic acid, polymer with ethenyl acetate	LD50 Oral	Rat	>2000 mg/kg	-
Benzene, ethenyl-, homopolymer	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
1,4-dihydroxybenzene	LD50 Dermal	Mammal	5970 mg/kg	-
	LD50 Dermal	Rabbit - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat	302 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
styrene [stable]	Respiratory - Irritant	Mammal - species unspecified	-	-	-
	Skin - Irritant	Rabbit	-	-	-
	Eyes - Irritant	Rabbit	-	-	-
2-Butenoic acid, polymer with ethenyl acetate	Skin - Non-irritating	Rabbit	0	-	-
,	Eyes - Non-irritating	Rabbit	0	-	-

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
Aluminum hydroxide 2-Butenoic acid, polymer with	skin Respiratory skin	Guinea pig Mouse Mouse	Not sensitizing Not sensitizing Not sensitizing
ethenyl acetate 1,4-dihydroxybenzene	skin	Mouse	Sensitising



Mutagenicity

Product/ingredient name	Test	Experiment	Result
1,4-dihydroxybenzene	-	Experiment: In vitro Subject: Mammalian-Animal Metabolic activation: with and without	Positive
	OECD 483 Mammalian Spermatogonial Chromosome Aberration Test	Experiment: In vivo Subject: Mammalian-Animal	Positive
	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria Metabolic activation: with and without	Negative
	OECD 473 In vitro Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammalian-Human Metabolic activation: with and without	Negative
	OECD 489, mammalian comet assay	Experiment: In vivo Subject: Mammalian-Animal	Negative

Carcinogenicity

Not available.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
Aluminum hydroxide	-	-	-	Rat	Oral: 1075 mg/ kg LOAEL	-
1,4-dihydroxybenzene	-	-	-	Rat	Oral: 300 mg/kg Parental NOEL	-

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
1,4-dihydroxybenzene	Negative - Oral	Rat	-	-

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 : Not available. of exposure Potential acute health effects

Eye contact: Causes serious eye irritation.Inhalation: May cause respiratory irritation.Skin contact: Causes skin irritation.Ingestion: May be harmful if swallowed.



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 effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure	
1,4-dihydroxybenzene	Chronic NOAEL Oral	Rat - Male, Female	25 mg/kg	-	
	Sub-chronic NOAEL Dermal	Rat - Male, Female	73.9 mg/kg	-	
	Sub-chronic NOAEL Oral	Rat	50 mg/kg	13 weeks; 5 days per week	
General	: Causes damage to organs through prolonged or repeated exposure.				
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)
Neomould® 1982-W-1	4133.6	113122.2	N/A	37.6	N/A
Aluminum hydroxide	2500	N/A	N/A	N/A	N/A
styrene [stable]	5000	N/A	N/A	11.8	N/A
2-Butenoic acid, polymer with ethenyl acetate	2500	N/A	N/A	N/A	N/A
Benzene, ethenyl-, homopolymer	2500	2500	N/A	N/A	N/A
1,4-dihydroxybenzene	302	2500	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 ₁₀ 0.28 mg/l Fresh water	Algae	96 hours
	Chronic NOEC 1.01 mg/l Fresh water	Daphnia	21 days
2-Butenoic acid, polymer with ethenyl acetate	Acute EC50 >100 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 >100 mg/l Fresh water	Fish	96 hours
1,4-dihydroxybenzene	Acute EC50 0.33 mg/l Fresh water	Algae - Pseudokirshnerella subcapitata	72 hours
	Acute EC50 130 µg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours
	Acute LC50 44 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute NOEC 0.019 mg/l Fresh water	Algae - Pseudokirschnerella subcapitata	72 hours
	Chronic NOEC 0.0057 mg/l Fresh water	Daphnia	21 days
	Chronic NOEC ≥0.066 mg/l arithmatic mean Fresh water	Fish - Pimephales promelas	32 days

Persistence/degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
styrene [stable]	-	-	Readily
2-Butenoic acid, polymer	-	-	Not readily
with ethenyl acetate			
Benzene, ethenyl-,	-	-	Not readily
homopolymer			-
1,4-dihydroxybenzene	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Neomould® 1982-W-1	>2	-	low
styrene [stable]	2.96	13.49	low
1,4-dihydroxybenzene	0.59	3.162	low

Mobility in soil Soil/water partition

coefficient (Koc)

: Not available.

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

Section 13. Disposal considerations

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.



		UN	IMDG	ΙΑΤΑ	
UN number	UN1866		UN1866	UN1866	
UN proper shipping name	RESIN S	OLUTION	RESIN SOLUTION	Resin solution	
Transport hazard class(es)	3	•	3	3	
Packing group					
Environmental hazards	No.		No.	No.	
IMDG IATA		Special prov Viscous liqu packagings u : Quantity lim 355. Cargo	up to 450 L according to 2.3.2. <u>litation</u> Passenger and Cargo Aircraft Only: 220 L. Packaging Aircraft: 10 L. Packaging instruct	Aircraft: 60 L. Packaging instructions: g instructions: 366. Limited Quantities -	
Special precautions		upright and s		transport in closed containers that are nsporting the product know what to do in	
Extinguishing media Suitable extinguisl media		: Use dry chen	nical, CO₂, water spray (fog) or	foam.	
Unsuitable extingu media	lishing	: Do not use w	vater jet.		
ncompatible materi	als		: Reactive or incompatible with the following materials: oxidizing materials		
Transport in bulk ac to Annex II of Marpo IBC Code		: Not available	<u>.</u>		

Section 15. Regulatory information

List of Goods banned for Importing

None of the components are listed.

Inventory of Hazardous Chemicals

Ingredient name	CAS number		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

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Listed

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

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

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

History	
Date of printing	: 2/27/2020
Date of issue/Date of revision	: 2/27/2020
Date of previous issue	: 10/24/2019
Version	: 4
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 = Internediate 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

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 3	On basis of test data
ACUTE TOXICITY (oral) - Category 5	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A	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 irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (hearing organs) - Category 1	Calculation method
SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 2	Calculation method
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Calculation method

References	: Not available.
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✓ 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 are suitable and sufficient for the product's intended purpose. In case of any unclarity we advise consulting the supplier or an expert.