

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 7/3/2024 Version: 1.0

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

1.1. Product identifier

Product form Product name Product group : Mixture : 50-3122RBK

: SDS Finished Good

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

No additional information available

1.3. Details of the supplier of the safety data sheet

Epoxies, Etc. 21 Starline Way 02921 Cranston, RI USA T 401-946-5564 www.epoxies.com

1.4. Emergency telephone number

Emergency number

: VelocityEHS: +1 (800) 255-3924, +1 (813) 248-0585

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (inhalation:dust,mist) Category 4	H332
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment – Chronic Hazard,	H411
Category 2	
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

Harmful if inhaled. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (E	C) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS07 GHS09
Signal word (CLP)	: Warning
Contains	: Epoxy phenol novolac resin; Epoxy phenol novolac resin; Cyanoguanidine
Hazard statements (CLP)	: H315 - Causes skin irritation.
	H317 - May cause an allergic skin reaction.
	H319 - Causes serious eve irritation.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

	H332 - Harmful if inhaled.
	H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP) :	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
	P264 - Wash hands, forearms and face thoroughly after handling.
	P271 - Use only outdoors or in a well-ventilated area.
	P272 - Contaminated work clothing should not be allowed out of the workplace.
	P273 - Avoid release to the environment.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
Extra phrases :	Restricted to professional users.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Epoxy phenol novolac resin (9003-36-5), Carbon black (1333-86-4), Cyanoguanidine (461-58-5), Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)(1)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Epoxy phenol novolac resin (9003-36-5), Carbon black (1333-86-4), Cyanoguanidine (461-58-5), Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)(1)

(1) Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component	
Substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)(')

(1) Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Epoxy phenol novolac resin	CAS-No.: 28064-14-4 EC-No.: 608-164-0	10 – 30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 2, H411
Epoxy phenol novolac resin	CAS-No.: 9003-36-5 EC-No.: 500-006-8	5 – 30	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Cyanoguanidine	CAS-No.: 461-58-5 EC-No.: 207-312-8	≥1	Acute Tox. 2 (Inhalation:dust,mist), H330
Carbon black (Colorant)	CAS-No.: 1333-86-4 EC-No.: 215-609-9	< 1	Self-heat. 1, H251 Carc. 2, H351

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Phenol, 4,4'-(1-methylethylidene)bis- substance listed as REACH Candidate substance with a Community workplace exposure limit	CAS-No.: 80-05-7 EC-No.: 201-245-8 EC Index-No.: 604-030-00-0	< 1	Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360F STOT SE 3, H335 Aquatic Chronic 3, H412

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
First-aid measures for first aider	: First aid workers will be equipped with suitable personal protective equipment.
4.2. Most important symptoms and ef	fects, both acute and delayed
Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.
Symptoms/effects after ingestion	: None under normal conditions.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.Do not use a heavy water stream.
5.2. Special hazards arising from the substa	ance or mixture
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 No fire hazard. No direct explosion hazard. Toxic fumes may be released.
5.3. Advice for firefighters	
Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
For non-emergency personnel	
Protective equipment Emergency procedures	 Wear recommended personal protective equipment. Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.
For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	. Evacuate unnecessary personnel. Stop leak it sale to do so.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containme	ent and cleaning up
For containment Methods for cleaning up	 Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. Take up liquid spill into absorbent material. Dispess of materials or solid residues at an authorized site.
	. Dispose of materials of solid residues at an autionzed site.
6.4. Reference to other sections	
For further information refer to agotion 12	

For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed Precautions for safe handling Hygiene measures	 Not expected to present a significant hazard under anticipated conditions of normal use. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	any incompatibilities
Technical measures Storage conditions Packaging materials	 Keep in a cool, well-ventilated place away from heat. Keep cool. Protect from sunlight. Store always product in container of same material as original container.
7.3. Specific end use(s)	

No additional information available

SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
National occupational exposure and biological limit values		
Carbon black (1333-86-4)		
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA)	3.5 mg/m ³	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Carbon black (1333-86-4)		
WEL STEL (OEL STEL)	7 mg/m ³	
Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	2 mg/m ³ (Inhalable fraction)	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA)	2 mg/m ³	

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment.



Eye and face protection

Eye protection: Safety glasses

Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection: Protective gloves

Respiratory protection

Respiratory protection: [In case of inadequate ventilation] wear respiratory protection.

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Not available
Odour	:	Not available
Odour threshold	:	Not available
Melting point	:	Not applicable
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Not available
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	Not available
Auto-ignition temperature	:	Not available

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Decomposition temperature	:	Not available
рН	:	Not available
Viscosity, kinematic	:	Not available
Solubility	:	Not available
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	Not available
Relative density	:	Not available
Relative vapour density at 20°C	:	Not available
Particle characteristics	:	Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity	
10.1. Reactivity	

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on h	azard classes as	defined in Regulation	(EC) No 1272/2008
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Acute toxicity (oral):Acute toxicity (dermal):Acute toxicity (inhalation):	Not classified Not classified Inhalation:dust,mist: Harmful if inhaled.	
50-3122RBK		
ATE CLP (dust,mist)	1.73 mg/l/4h	
Carbon black (1333-86-4)		
LD50 oral rat	> 8000 mg/kg Source: ECHA	
LD50 oral	8000 mg/kg	
LD50 dermal rabbit	> 8000 mg/kg Source: ECHA	
Cyanoguanidine (461-58-5)		
LD50 oral rat	> 30000 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral)	

Safety Data Sheet

Cyanoguanidine (461-58-5)			
LD50 dermal rabbit	> 2000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))		
LC50 Inhalation - Rat	> 0.259 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))		
Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)			
LD50 oral rat	2000 – 5000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))		
LD50 oral	3300 mg/kg		
LD50 dermal rabbit	3000 mg/kg bodyweight (Rabbit, Experimental value, Dermal)		
LD50 dermal	3000 mg/kg		
Skin corrosion/irritation :	Causes skin irritation.		
Epoxy phenol novolac resin (9003-36-5)			
рН	No data available in the literature		
Carbon black (1333-86-4)			
рН	4 – 10 (5 %, 20 °C)		
Cyanoguanidine (461-58-5)			
pН	No data available in the literature		
Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)			
рН	No data available in the literature		
Serious eye damage/irritation :	Causes serious eye irritation.		
Epoxy phenol novolac resin (9003-36-5)			
рН	No data available in the literature		
Carbon black (1333-86-4)			
рН	4 – 10 (5 %, 20 °C)		
Cyanoguanidine (461-58-5)			
рН	No data available in the literature		
Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)			
рН	No data available in the literature		
Respiratory or skin sensitisation :	May cause an allergic skin reaction.		
Germ cell mutagenicity :	Not classified		
Carchogenicity : Not classified			
IARC group	2B - Possibly carcinogenic to humans		
Carbon black (1333-86-4)			
Additional information	*Not a respirable hazard as contained in this liquid mixture		
Reproductive toxicity :	Not classified		
STOT-single exposure :	Not classified		
Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)			
STOT-single exposure	May cause respiratory irritation.		
STOT-repeated exposure :	Not classified		

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Epoxy phenol novolac resin (9003-36-5)		
NOAEL (oral, rat, 90 days)	≈ 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity in Rodents)	
Carbon black (1333-86-4)		
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.0071 mg/l air Animal: rat, Animal sex: male	
NOAEL (oral, rat, 90 days)	> 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.0011 mg/l air Animal: rat, Animal sex: male	
Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)		
LOAEL (oral, rat, 90 days)	600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28- Day Oral Toxicity in Rodents)	
Aspiration hazard :	Not classified	
Epoxy phenol novolac resin (9003-36-5)		
Viscosity, kinematic	No data available in the literature	
Carbon black (1333-86-4)		
Viscosity, kinematic	Not applicable (solid)	
Cyanoguanidine (461-58-5)		
Viscosity, kinematic	Not applicable (solid)	
Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)		
Viscosity, kinematic	Not applicable (solid)	
11.2. Information on other hazards		
Endocrine disrupting properties		
Component		
Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)	The substance is identified for having endocrine disrupting properties but there is no additional data available (see section 2.3)	

SECTION 12: Ecological information

12.1. Toxicity : Toxic to aquatic life with long lasting effects. Ecology - general Hazardous to the aquatic environment, short-term : Not classified (acute) Hazardous to the aquatic environment, long-term : Toxic to aquatic life with long lasting effects. (chronic) Epoxy phenol novolac resin (9003-36-5) LC50 - Fish [1] 1.9 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Semi-static system, Fresh water, Weight of evidence) LC50 - Fish [2] 1000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) EC50 - Crustacea [1] 3.5 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Weight of evidence, GLP) EC50 72h - Algae [1] 1.8 mg/l (Equivalent or similar to OECD 201, Selenastrum capricornutum, Static system, Fresh water, Experimental value)

Safety Data Sheet

Epoxy phenol novolac resin (9003-36-5)		
LOEC (chronic)	1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	0.3 mg/I Test organisms (species): Daphnia magna Duration: '21 d'	
Carbon black (1333-86-4)		
LC50 - Fish [1]	> 1000 mg/l Source: NITE	
EC50 - Crustacea [1]	> 5600 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)	
EC50 72h - Algae [1]	> 10000 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
EC50 72h - Algae [2]	> 10000 mg/l Test organisms (species):	
ErC50 algae	> 10000 mg/l Source: EHCA	
Cyanoguanidine (461-58-5)		
LC50 - Fish [1]	7700 ppm (96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration)	
EC50 - Crustacea [1]	3177 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)	
LOEC (chronic)	50 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC chronic fish	≥ 100 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'	
Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)		
LC50 - Fish [1]	4.6 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)	
EC50 - Crustacea [1]	10.2 mg/l (ASTM E-35.21, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Lethal)	
EC50 96h - Algae [1]	2.73 – 3.1 mg/l (EPA 600/9-78-018, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)	
EC50 96h - Algae [2]	1.4 mg/l Test organisms (species): Skeletonema costatum	
LOEC (chronic)	3.6 mg/l Test organisms (species): other:Rotifer (Brachionus calyciflorus) Duration: '48 h'	
NOEC chronic fish	0.16 mg/l	
12.2. Persistence and degradability		
50-3122RBK		
Persistence and degradability	Not rapidly degradable	
Epoxy phenol novolac resin (28064-14-4)		
Persistence and degradability	Biodegradability in soil: no data available.	
Epoxy phenol novolac resin (9003-36-5)		
Persistence and degradability	Not readily biodegradable in water.	
Carbon black (1333-86-4)		
Persistence and degradability	Biodegradability in soil: not applicable, Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Cyanoguanidine (461-58-5)		
Persistence and degradability	Not readily biodegradable in water.	
Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)		
Persistence and degradability	Readily biodegradable in the soil, Readily biodegradable in water.	
Chemical oxygen demand (COD)	0.036 g O ₂ /g substance	
ThOD	2.5 g O ₂ /g substance	

12.3. Bioaccumulative potential

Epoxy phenol novolac resin (28064-14-4)		
Bioaccumulative potential	No bioaccumulation data available.	
Epoxy phenol novolac resin (9003-36-5)		
Partition coefficient n-octanol/water (Log Pow)	2.7 – 3.6 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Carbon black (1333-86-4)		
Bioaccumulative potential	Not bioaccumulative.	
Cyanoguanidine (461-58-5)		
Partition coefficient n-octanol/water (Log Pow)	-1 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)	
Bioaccumulative potential	Not bioaccumulative.	
Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)		
BCF - Fish [1]	5.1 – 67 (42 day(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value, Fresh weight)	
Partition coefficient n-octanol/water (Log Pow)	3.4 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 21.5 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	

12.4. Mobility in soil

Epoxy phenol novolac resin (9003-36-5)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.65 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)	
Ecology - soil	Low potential for mobility in soil.	
Carbon black (1333-86-4)		
Surface tension	Not applicable (solid)	
Ecology - soil	No (test)data on mobility of the substance available. Not toxic to plants. Not toxic to animals.	
Cyanoguanidine (461-58-5)		
Surface tension	No data available in the literature	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.638 – 0.951 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Highly mobile in soil.	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)		
Surface tension	No data available (test not performed)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.8 – 2.97 (log Koc, OECD 106: Adsorption/Desorption Using a Batch Equilibrium Method, Experimental value, GLP)	
Ecology - soil	Low potential for adsorption in soil.	

12.5. Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Epoxy phenol novolac resin (9003-36-5), Carbon black (1333-86-4), Cyanoguanidine (461-58-5), Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)(¹)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Epoxy phenol novolac resin (9003-36-5), Carbon black (1333-86-4), Cyanoguanidine (461-58-5), Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)(1)

(1) Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

12.6. Endocrine disrupting properties

Component	
Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)	The substance is identified for having endocrine disrupting properties but there is no additional data available (see section 2.3)

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Regional waste regulation Waste treatment methods Sewage disposal recommendations Product/Packaging disposal recommendations Additional information	 Disposal must be done according to official regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions. Disposal must be done according to official regulations. Disposal must be done according to official regulations. Do not re-use empty containers.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID n	14.1. UN number or ID number			
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy phenol novolac resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy phenol novolac resin)	Environmentally hazardous substance, liquid, n.o.s. (Epoxy phenol novolac resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy phenol novolac resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy phenol novolac resin)

Safety Data Sheet

ADR	IMDG	ΙΑΤΑ	ADN	RID
Transport document description				I
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy phenol novolac resin), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy phenol novolac resin), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Epoxy phenol novolac resin), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy phenol novolac resin), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy phenol novolac resin), 9, III
14.3. Transport hazard o	lass(es)			
9	9	9	9	9
14.4. Packing group				
III	III	Ш	Ш	III
14.5. Environmental haz	ards		-	
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes EmS-No. (Fire): F-A EmS-No. (Spillage): S-F	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information	n available	I	I	I
14.6. Special precaution	s for user			
Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Special packing provisions (AD Portable tank and pulk contain Portable tank and bulk contain (ADR) Tank code (ADR) Vehicle for tank carriage Transport category (ADR) Special provisions for carriage Special provisions for carriage and handling (ADR) Hazard identification number Orange plates	: M6 : 274 : 51 : E1 : P0 DR) : PP R) : MF ner instructions (ADR) : T4 ner special provisions : TP : LG : AT : 3 e - Packages (ADR) : V1 e - Loading, unloading : CV (Kemler No.) : 90 : []	4, 335, 375, 601 01, IBC03, LP01, R001 1 919 1, TP29 BV 2 13 90 3082		
Tunnel restriction code (ADR) EAC code	•32	2		
Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG)	: 27 : 5L : E1	4, 335, 969		

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Packing instructions (IMDG) Special packing provisions (IMDG) IBC packing instructions (IMDG)	: LP01, P001 : PP1 : IBC03
Tank special provisions (IMDG)	· TP1 TP20
	. IF1, IF25 . A
Stowage category (IMDG)	A
Air transport PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA)	: E1 : Y964 : 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provisions (IATA)	: A97, A158, A197, A215
ERG code (IATA)	: 9L
Inland waterway transport	
Classification code (ADN)	: M6
Special provisions (ADN)	: 274, 335, 375, 601
Limited quantities (ADN)	: 5L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: Т
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: M6
Special provisions (RID)	: 274, 335, 375, 601
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions	: TP1, TP29
(RID)	
Tank codes for RID tanks (RID)	: LGBV
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW31
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 90

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	50-3122RBK ; Epoxy phenol novolac resin ; Epoxy phenol novolac resin ; Phenol, 4,4'-(1- methylethylidene)bis-	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	50-3122RBK ; Epoxy phenol novolac resin ; Epoxy phenol novolac resin ; Phenol, 4,4'-(1- methylethylidene)bis-	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1
30.	Phenol, 4,4'-(1- methylethylidene)bis-	Substances which are classified as reproductive toxicant category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 5 or Appendix 6, respectively.
66.	Phenol, 4,4'-(1- methylethylidene)bis-	Bisphenol A

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List in concentrations \geq 0.1 % or SCL: Phenol, 4,4'-(1-methylethylidene)bis- (EC 201-245-8, CAS 80-05-7)

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

Safety Data Sheet

SECTION 16: Other information		
Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disruptor	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:		
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Carc. 2	Carcinogenicity, Category 2	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H251	Self-heating: may catch fire.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H330	Fatal if inhaled.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H351	Suspected of causing cancer.	
H360F	May damage fertility.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
Repr. 1B	Reproductive toxicity, Category 1B	
Self-heat. 1	Self-Heating Substances and Mixtures, Category 1	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1A	Skin sensitisation, category 1A	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.