

SAFETY DATA SHEET

EPOXY Shield® Garage Floor Coating Part A Activator

1. Identification of the substance/preparation and of the company/undertaking

Product name and/or code : EPOXY Shield® Garage Floor Coating Part A Activator
Manufacturer : Rust-Oleum Netherlands BV, PO. Box 138, NL-4700 AC Roosendaal, The Netherlands
NV Martin Mathys, Kolenberg 23, B-3545 Zelem, Belgium
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2. Composition/information on ingredients

Substance/preparation : Preparation

Chemical name*	CAS No.	%	EC number	Classification
Europe Bisphenol-A-epoxy resin, avg.mol.wght. < 700		50 - 100	500-033-5	Xi; R36/38 R43
2,3-epoxypropyl o-tolyl ether	2210-79-9	5 - 10	218-645-3	N; R51/53 Muta. Cat. 3; R68 Xi; R38 R43
Ethyleneglycol monopropyl ether	2807-30-9	5 - 10	220-548-6	N; R51/53 R10 Xn; R21 Xi; R36
See section 16 for the full text of the R Phrases declared above				

* Occupational Exposure Limit(s), if available, are listed in section 8

3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : R36/38- Irritating to eyes and skin.
R43- May cause sensitization by skin contact.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The preparation may be a skin sensitizer. It also might be a skin irritant and repeated contact might increase this effect.

4. First aid measures

First-Aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if irregular breathing, or respiratory arrest occurs provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.
- Skin Contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Eye Contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing Media	: Recommended: alcohol resistant foam, CO ₂ , powders, water spray. Not to be used : waterjet.
Recommendations	: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.
Special fire-fighting procedures	: Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
Hazardous thermal decomposition products	: These products are carbon oxides (CO, CO ₂).

6. Accidental release measures

Personal precautions	: Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.
Spill	: Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth, and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Clean preferably with a detergent; avoid use of solvents. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

Handling	<p>: Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits.</p> <p>Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used.</p> <p>Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates and spray mist arising from the application of this preparation. Avoid inhalation of dust from sanding.</p> <p>Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.</p> <p>Put on appropriate personal protective equipment (see Section 8).</p> <p>Comply with the health and safety at work laws.</p>
Storage	<p>: Store in accordance with local regulations. Observe label precautions. Do not store above 35°C (95°F). Store in a cool, well-ventilated area away from incompatible materials and ignition sources.</p> <p>Keep away from: oxidizing agents, strong alkalis, strong acids. No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage. Do not empty into drains..</p>

8. Exposure controls/personal protection

Engineering measures	: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.
Hygiene measures	: Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.
Occupational exposure limits	: Not available.
Recommended monitoring procedures	: No special measures are required. General ventilation is typically sufficient. Provide eye wash and quick drench shower close to work station.
Occupational exposure controls	: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal protective equipment

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Respiratory system	: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.
Hands	: For prolonged or repeated handling, use gloves: polyvinyl alcohol or nitrile. Barrier creams may help to protect the exposed areas of the skin, but should not be applied once exposure has occurred.
Skin and body	: Personnel should wear antistatic clothing made of natural fibers or of high-temperature-resistant synthetic fibers.
Eyes	: Use safety eyewear designed to protect against splash of liquids.

9. Physical and chemical properties

Physical state	: Liquid.
Odor	: Bland.
Specific gravity	: 1.07 (Water = 1)
Melting point	: <0°C (32°F)
Boiling point	: >200°C (392°F)
Auto-ignition temperature	: The lowest known value is 230°C (446°F) (Ethyleneglycol monopropyl ether).
Flash point	: Closed cup: >130°C (266°F).
Lower explosion limit	: The greatest known range is Lower: 5.5% Upper: 23% (2-(Propyloxy)ethanol) Nonflammable, but will burn on prolonged exposure to flame or high temperature. No unusual hazard if involved in a fire.
Vapor pressure	: <0.01 kPa (<0.1 mm Hg) (at 20°C)
Vapor density	: >1 (Air = 1)
Evaporation rate	: <1 compared to Ether (anhydrous).
Solubility	: Very slightly soluble in cold water. Insoluble in hot water.
Volatility (%)	: 8.6% (v/v). 7.27% (w/w).
VOC (W/W):	: 77.8 (g/l).

10. Stability and reactivity

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

Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

11. Toxicological information

There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Chapters 2 and 15 for details.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar preparations, this preparation may be a skin sensitizer and an irritant. It contains low-molecular epoxy constituents which are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitization to other epoxies. Skin contact with the preparation and exposure to spray mist and vapors should be avoided.

Contains (Bisphenol-A-epoxy resin, avg.mol.wght. < 700, Cresyl Glycidyl Ether). May produce an allergic reaction.

Potential acute health effects

Ingestion	: Hazardous in case of ingestion.
Inhalation	: Exposure to high air concentrations may cause mild irritation of eyes, nose, and throat.
Skin contact	: Irritating to skin. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. May cause sensitization by skin contact.
Eye contact	: This product may irritate eyes upon contact.
Other adverse effects	:
Other toxic effects on humans	: May cause allergic skin reactions with repeated exposure. Persons with a history of skin sensitization problems should not be employed in any process in which this preparation is used.

Acute Data (LD₅₀, LC₅₀) - Toxicity to Test Animals

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
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Bisphenol-A-epoxy resin, avg.mol.wght. < 700	LD50	>11400 mg/kg	Oral	Rat
	LD50	>2000 mg/kg	Dermal	Rabbit
Ethyleneglycol monopropyl ether	LD50	3089 mg/kg	Oral	Rat
	LD50	1774 mg/kg	Oral	Mouse
	LD50	1 mg/kg	Dermal	Guinea pig
	LD50	960 mg/kg	Dermal	Rabbit

Potential chronic health effects

<u>Inгредиент name</u>	<u>Carcinogenic effects</u>	<u>Mutagenic effects</u>	<u>Developmental toxicity</u>	<u>Impairs fertility</u>
2,3-epoxypropyl o-tolyl ether		Muta. Cat. 3; R68		
Carcinogenicity	: No known significant effects or critical hazards.			
Mutagenicity	: No known significant effects or critical hazards.			
Reproductive toxicity	: No known significant effects or critical hazards.			

12. Ecological information

There is no data available on the preparation itself.
Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See Sections 2 and 15 for details.

Ecotoxicity data

<u>Inгредиент name</u>	<u>Result</u>	<u>Period</u>	<u>Species</u>
Bisphenol-A-epoxy resin, avg.mol.wght. < 700	Fathead minnow (pimephales promelas) (LC50)	24 hour(s)	3.1 mg/l
	zebra fish (brachydanio rerio) (LC50)	24 hour(s)	9.4 mg/l
	daphnia (EC50)	24 hour(s)	1.1 to 3.6 mg/l
	Algae (IC50)	96 hour(s)	220 mg/l
	Rainbow trout (oncorhynchus mykiss) (LC50)	24 hour(s)	1.5 to 7.7 mg/l

<u>Inгредиент name</u>	<u>Persistence/degradability</u>						<u>Bioaccumulative potential</u>		
	BOD ₅	COD	ThOD	Aquatic half-life	Photolysis	Biodegradability	LogP _{ow}	BCF	Potential
Bisphenol-A-epoxy resin, avg.mol.wght. < 700						Not readily	>3		high

13. Disposal considerations

Do not allow to enter drains or watercourses.
Dispose of according to all federal, state and local applicable regulations.


Methods of disposal ; Waste of residues ; Contaminated packaging	: Type: Hazardous chemical waste. Location: European Union Classification: H12 (Environmentally hazardous) Disposal.: via incineration Storage: * (No specific storage is required. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded. Storage of controlled substances must comply with applicable regulatory security requirements.) Recycling: * (Not applicable.)
European waste catalogue (EWC)	: 080111

14. Transport information

International transport regulations

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
ADR/RID Class	3082	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A-epoxy resin, avg.mol.wght. < 700)	9	III		<u>Limited quantity</u> LQ28 <u>Remarks</u> Not subject to ADR/IMDG [LQ28 / IMDG < 5L.]

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IMDG Class	3082	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A-epoxy resin, avg.mol.wght. < 700)	9	III		Remarks Not subject to ADR/IMDG [LQ28 / IMDG < 5L.]
IATA-DGR Class	3082	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A-epoxy resin, avg.mol.wght. < 700)	9	III		Packaging instruction 914

15. Regulatory information**EU Regulations**

: The product is labelled as follows, in accordance with local regulations:

Hazard symbol(s)

:



Irritant, Dangerous for the environment.

Risk Phrases

: R36/38- Irritating to eyes and skin.
 R43- May cause sensitization by skin contact.
 R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

: S2- Keep out of the reach of children.
 S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S36/37- Wear suitable protective clothing and gloves.
 S46- If swallowed, seek medical advice immediately and show this container or label.
 S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.

Contains

: Bisphenol-A-epoxy resin, avg.mol.wght. < 700 500-033-5
 2,3-epoxypropyl o-tolyl ether 218-645-3

Product use

: Classification and labeling have been performed according to EU directives 67/548/EEC, 1999/45/EC including amendments and the intended use.
 - Consumer applications.

Additional warning phrases

: Contains epoxy constituents. See information supplied by the manufacturer. This information is provided by the current Safety Data Sheet.

EC Statistical classification (Tariff Code)

: 3208 90 91

16. Other information**Full text of R-phrases appearing in section 2:**

: R10- Flammable.
 R68- Possible risk of irreversible effects.
 R21- Harmful in contact with skin.
 R36- Irritating to eyes.
 R36/38- Irritating to eyes and skin.
 R38- Irritating to skin.
 R43- May cause sensitization by skin contact.
 R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Designation of symbols in Section 2

: Muta. Cat.3 - Mutagen Category 3
 Xn - Harmful
 Xi - Irritant
 N - Dangerous for the environment.

HISTORY**Date of printing**

: 16-11-2004.

Date of issue

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Version

: 1

Prepared by

: RPM Europe - Department Environment, Health and Safety

Notice to Reader

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