SAFETY DATA SHEET

3301 Activator for SUPERADHESIVE 3333

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

Product name and/or code : **3301 Activator for SUPERADHESIVE 3333**

Manufacturer : Rust-Oleum Netherlands BV, PO. Box 138, NL-4700 AC Roosendaal, The Netherlands
NV Martin Mathys, Kolenberg 23, B-3545 Zelem, Belgium

Emergency telephone number : Rust-Oleum: (+31)165-593636; Fax (+31)165-593600
Martin Mathys: (+32)13-460200; Fax (+32)13-460201

Product use : Hardener for 2-component paint.

2. Composition/information on ingredients

Substance/preparation : Preparation

Chemical name*	CAS No.	%	EC number	Classification
Europe				
Bisphenol-A-epoxy resin avg.mol.wght. <700		25 - 50	500-033-5	Xi; R36/38 R43 N; R51/53
Butylphenylglycidylether	3101-60-8	5 - 10	221-453-2	Xi; R36/38 R43 R52/53
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.The preparation might be a skin sensitizer. It also might be a severe skin irritant.

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.

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 : Keep container tightly closed. Keep away from heat, sparks and flame.

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.

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.

Put on appropriate personal protective equipment (see Section 8).

Comply with the health and safety at work laws.

Storage : Store in accordance with local regulations. Observe label precautions. Store in a cool, well-ventilated area away from incompatible materials and ignition sources.

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..

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 : Keep away from food, drink and animal feeding stuffs. Never eat, drink or smoke in work areas. Practice good personal hygiene when using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. It is generally recognized that contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury.

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 : Keep only in the original container in a cool, well-ventilated place. Good general ventilation should be sufficient to control airborne levels. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Provide an eye wash in the area if eye contact may occur.

Personal protective equipment

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 neoprene.

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. (Emulsion liquid.)

Color : White.

Odor : Faint Odor

Specific gravity : 1.75 (Water = 1)

pH : Neutral.

Melting point : 0°C (32°F)

Boiling point : >200°C (392°F)
This material will not burn or burns with difficulty.

Vapor pressure : <1.3 kPa (@ 20°C)

Vapor density : >1 (Air = 1)

Evaporation rate : <1 compared to Butyl acetate.

Solubility : Easily soluble in cold water, hot water.

Viscosity : Dynamic: 5000 cP

Volatility (%) : 7.2% (v/v). 4% (w/w).

VOC (W/W): : 5 (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 epoxy constituent(s) and considering toxicological data on similar preparations, this preparation may be a skin sensitizer and a severe irritant. It contains epoxy-based reactive diluents which are moderately to severely irritating to eyes, mucous membranes and skin and are strong sensitizers. Repeated skin contact may lead to irritation and to hypersensitivity, possibly with cross-sensitization to other epoxies. Single oral exposure to doses of the epoxy-based reactive diluents at or close to the lethal dose has been shown to cause transient neurotoxic effects in animals in some cases. However, uptake through skin and by inhalation has not caused such effects in animals. Prolonged exposure to high concentrations may cause adverse effects in target organs such as the liver and kidneys.

Contains (Bisphenol-A-epoxy resin avg.mol.wght. <700, p-tert.-Butylphenylglycidylether). May produce an allergic reaction.

Potential acute health effects

Ingestion : No data on acute toxicity of the product when ingested.

Inhalation : Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.

Skin contact : Hazardous in case of skin contact (irritant, sensitizer). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Eye contact : This product may irritate eyes upon contact. May cause corneal opacity. Inflammation of the eye is characterized by redness, watering, and itching.

Other toxic effects on humans : Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. May cause sensitization by skin contact. Repeated exposure may cause allergic skin rash, itching, swelling. Persons with a history of skin sensitization problems should not be employed in any process in which this preparation is used.

Acute Data (LD_{50}, LC_{50}) - Toxicity to Test Animals

Ingredient name	Test	Result	Route	Species
Bisphenol-A-epoxy resin avg.mol.wght. <700	LD50	>11400 mg/kg	Oral	Rat
	LD50	>2000 mg/kg	Dermal	Rabbit

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

Ingredient name	Result	Period	Species
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

Ingredient name	Persistence/degradability						Bioaccumulative potential		
	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

Mobility : Non-volatile.

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: * (Storage of controlled substances must comply with applicable regulatory security requirements. 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.)
Recycling: * (Not applicable.)

European waste catalogue (EWC) : 080115

14. Transport information

International transport regulations

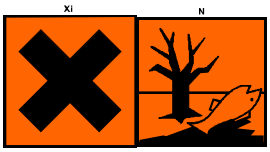
Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
ADR/RID Class	3082	Environmentally hazardous substance, liquid, n.o.s. Limited quantity (Bisphenol-A-epoxy resin avg.mol.wght. <700)	9	III		**Hazard identification number** **90** **Limited quantity** **LQ28** **Remarks** **Limited Quantity - ADR/IMDG 3.4.6**
IMDG Class	3082	Environmentally hazardous substance, liquid, n.o.s. Limited quantity (Bisphenol-A-epoxy resin avg.mol.wght. <700)	9	III		**Emergency schedules (EmS)** **F-A, S-F** **Remarks** **Limited Quantity - ADR/IMDG 3.4.6**

3301 Activator for SUPERADHESIVE 3333						
IATA-DGR Class	3082	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A-epoxy resin avg.mol.wght. <700)	9	III		**Packaging instruction** **914 (NO LIMIT)**

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 : S24/25- Avoid contact with skin and eyes.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37- Wear suitable gloves.
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
Butylphenylglycidylether 221-453-2

Product use : Classification and labeling have been performed according to EU directives 67/548/EEC, 1999/45/EC including amendments and the intended use.
- Industrial 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) : 3209 90 00

16. Other information

Full text of R-phrases appearing in section 2: : 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.
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Designation of symbols in Section 2 : Xi - Irritant
N - Dangerous for the environment.

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