



SAFETY DATA SHEET

9103 (Activator 9170/9180 High Build Epoxy Primers)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name and/or code : 9103 (Activator 9170/9180 High Build Epoxy Primers)
Manufacturer : Rust-Oleum Netherlands BV, PO. Box 138, NL-4700 AC Roosendaal, The Netherlands
 NV Martin Mathys, Kolenbergstraat 23, B-3545 Zelem, Belgium
Emergency phone number : Andrews Coatings Ltd. Carver Building, Littles Lane
 Wolverhampton, West Midlands, WV1 1JY
e-Mail address of person responsible for this SDS : Telephone Number: 01902 429190, Fax Number: 01902 426574
Distributor : Email: sales@andrewscoatings.co.uk
Product use :

2. HAZARDS IDENTIFICATION

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

Classification : R10
 Xn; R20/21
 Xi; R41, R38
Physical/chemical hazards : Flammable.
Human health hazards : Harmful by inhalation and in contact with skin. Risk of serious damage to eyes. Irritating to skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

| Chemical name | CAS # | % | EU no. | Classification |
|---|------------|---------|-----------|---|
| xylene (mixture of isomeres) | 1330-20-7 | 10 - 25 | 215-535-7 | R10 Xn; R20/21 Xi; R38 [1] [2] |
| Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines | 68410-23-1 | 10 - 25 | | Xi; R41, R38 [1] |
| butan-1-ol | 71-36-3 | 2.5 - 5 | 200-751-6 | R10 Xn; R22 Xi; R41, R37/38 R67 [1] [2] |
| 1-methoxy-2-propanol | 107-98-2 | 2.5 - 5 | 203-539-1 | R10 [2] |
| See section 16 for the full text of the R-phrases declared above | | | | |

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.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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 breathing is irregular or if 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.

5. FIRE-FIGHTING MEASURES

- Extinguishing media** : Recommended: alcohol-resistant foam, CO₂, powders, water spray.
Not to be used : water jet.
- 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 drains or watercourses.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
metal oxide/oxides

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 material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Preferably clean with a detergent. Avoid using 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** : 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.
- In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.
- Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used.
- Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation.
- 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.
- 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. Do not store above the following temperature: 35°C (95°F). 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 have been 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.

Ingredient name

Xylene (mixture of isomers)

1-methoxy-2-propanol

butan-1-ol

Occupational exposure limits

EH40-WEL (United Kingdom (UK), 9/2006). SkinWEL 15 min limit: 441 mg/m³ 15 minute(s).WEL 8 hrs limit: 220 mg/m³ 8 hour(s).**EH40-WEL (United Kingdom (UK), 9/2006). Skin**WEL 15 min limit: 560 mg/m³ 15 minute(s).WEL 8 hrs limit: 375 mg/m³ 8 hour(s).**EH40-WEL (United Kingdom (UK), 9/2006). Skin**WEL 15 min limit: 154 mg/m³ 15 minute(s).

Exposure controls/personal protection

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Occupational exposure controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- 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 safety showers are close to the workstation location.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: organic vapor filter (Type A) (EN 140) .
- 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. >8 hours (breakthrough time): gloves, polyvinyl alcohol (PVA) or nitrile rubber (EN 374)
Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
- Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: safety glasses with side-shields (EN 166) .
- Skin 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. Recommended: overall .
- 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Liquid.
- Odor** : Solvent-like.
- Color** : Grayish-white.
- Flash point** : Closed cup: 25°C (77°F) [Setaflash.]
- Boiling point** : >140°C (>284°F)
- Explosion limits** : Lower: 2%
Upper: 12%
- Vapor pressure** : 0.6 kPa (4.5 mm Hg)
- Vapor density** : >1 [Air = 1]
- Evaporation rate (BuAc=1)** : 0.7 (Butyl acetate. = 1)
- Volatility %** : 53.1% (v/v), 30.5% (w/w)
- pH** : 9
- Viscosity** : Dynamic: >3000 mPa·s (>3000 cP)
- Relative density (kg/L)** : 1.61

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 sections 3 and 15 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. 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.

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|--------|---------|------|----------|
|-------------------------|--------|---------|------|----------|

11. TOXICOLOGICAL INFORMATION

| | | | | |
|------------------------------|----------------------------------|--------|-------------------------|---------|
| xylene (mixture of isomeres) | LD50 Intraperitoneal | Rat | 2459 mg/kg | - |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| | LD50 Subcutaneous | Rat | 1700 mg/kg | - |
| | LC50 Inhalation Gas. | Rat | 5000 ppm | 4 hours |
| | LC50 Inhalation Vapor | Rat | 5000 ppm | 4 hours |
| butan-1-ol | LD50 Dermal | Rabbit | 3400 mg/kg | - |
| | LD50 Intraperitoneal | Rat | 200 mg/kg | - |
| | LD50 Intravenous | Rat | 310 mg/kg | - |
| | LD50 Oral | Rat | 790 mg/kg | - |
| | TDL ₀ Intraperitoneal | Rat | 400 mg/kg | - |
| | LC50 Inhalation Vapor | Rat | 25 mg/L | 4 hours |
| | LC50 Inhalation Vapor | Rat | 24000 mg/m ³ | 4 hours |
| | LC50 Inhalation Vapor | Rat | 8000 ppm | 4 hours |
| 1-methoxy-2-propanol | LC50 Inhalation Gas. | Rat | 8000 ppm | 4 hours |
| | LD50 Intraperitoneal | Rat | 3720 mg/kg | - |
| | LD50 Oral | Rat | 6600 mg/kg | - |
| | LD50 Subcutaneous | Rat | 7800 mg/kg | - |
| | LDLo Oral | Rat | 3739 mg/kg | - |
| | LC50 Inhalation Vapor | Rat | 55000 mg/m ³ | 4 hours |
| | LC50 Inhalation Gas. | Rat | 10000 ppm | 5 hours |
| | LCLo Inhalation Vapor | Rat | 7000 ppm | 6 hours |
| | | | | |

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 not classified as dangerous for the environment.

Aquatic ecotoxicity

| Ingredient name | Test | Result | Species | Exposure |
|------------------------------|-------------|--|--|-----------------|
| xylene (mixture of isomeres) | - | Acute LC50 13500 to 19200 ug/L Fresh water | Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss - 0.9 g | 96 hours |
| | - | Acute LC50 13400 ug/L Fresh water | Fish - Fathead minnow - Pimephales promelas - 31 days - 18.4 mm - 0.077 g | 96 hours |
| | - | Acute LC50 13500 to 16100 ug/L Fresh water | Fish - Bluegill - Lepomis macrochirus - 1.1 g | 96 hours |
| butan-1-ol | - | Acute EC50 1983000 to 2072000 ug/L Fresh water | Daphnia - Water flea - Daphnia magna - 6 to 24 hours | 48 hours |
| | - | Acute LC50 100 to 500 mg/L Fresh water | Fish - Bluegill - Lepomis macrochirus - 0.1 g | 96 hours |
| | - | Acute LC50 1940000 ug/L Fresh water | Fish - Fathead minnow - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 4 to 8 weeks - 1.1 to 3.1 cm | 96 hours |
| | - | Acute LC50 2300000 ug/L Marine water | Fish - Bleak - Alburnus alburnus - 8 to 10 cm | 96 hours |
| 1-methoxy-2-propanol | - | Acute EC50 >1000 mg/l | Algae - Selenastrum capricomutum | 7 days |
| | - | Acute LC50 20800 mg/l | Fish - Fathead minnow | 96 hours |
| | - | Acute LC50 23300 mg/l | Daphnia | 96 hours |

Ecological information**Biodegradability**

| Ingredient name | Test | Result | Dose | Inoculum |
|------------------------------|-------------|--------------------------------|------------------------------|-----------------|
| xylene (mixture of isomeres) | - | 90 % - Readily - 5 days | - | - |
| butan-1-ol | OECD 301B | >70 % - Readily - 19 days | - | - |
| 1-methoxy-2-propanol | OECD 301E | 96 % - Readily - 28 days | - | - |
| | - | >90 % - Readily - 5 days | 1.95 gO ₂ /g ThOD | - |
| | OECD 301C | 88 to 92 % - Readily - 28 days | - | - |

Conclusion/Remark : This product has not been tested for biodegradation.

| Ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|------------------------------|--------------------------|-------------------|-------------------------|
| xylene (mixture of isomeres) | - | - | Readily |
| butan-1-ol | - | - | Readily |
| 1-methoxy-2-propanol | Fresh water <28 days | - | Readily |

Bioaccumulative potential

| Ingredient name | LogP_{ow} | BCF | Potential |
|------------------------------|--------------------------|------------|------------------|
| xylene (mixture of isomeres) | 3.2 | - | high |
| butan-1-ol | 0.8 | - | low |
| 1-methoxy-2-propanol | -0.49 | <100 | low |

13. DISPOSAL CONSIDERATIONS

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.


European waste catalogue (EWC) : The European Waste Catalogue classification of this product, when disposed of as waste, is: 08 01 11* waste paint and varnish containing organic solvents or other dangerous substances. If this product is mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.

Hazardous waste : Yes.

14. TRANSPORT INFORMATION

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

International transport regulations

| Regulatory information | UN number | Proper shipping name | Classes | PG* | Label | Additional information |
|------------------------|-----------|----------------------|---------|-----|---|--|
| ADR/RID Class | - - | - | - | - | | Remarks Exempted according to 2.2.3.1.5 (Viscous substance exemption) |
| IMDG Class | 1263 | Paint. | 3 | III | | Emergency schedules (EmS) F-E +S-E Remarks Exempted according to 2.3.2.5 (Viscous substance exemption) |
| IATA Class | 1263 | Paint. | 3 | III |  | Passenger and Cargo Aircraft Quantity limitation: 60 L Packaging instructions: 309 Cargo Aircraft Only Quantity limitation: 220 L Packaging instructions: 310 Limited Quantities - Passenger Aircraft Quantity limitation: 10 L Packaging instructions: Y 309 |

PG* : Packing group

The "viscosity exemption" provisions do not apply to air transport.

15. REGULATORY INFORMATION

EU regulations : The product is classified and labelled for supply in accordance with the Directive 1999/45/EC as follows:

Hazard symbol or symbols :



Harmful

Risk phrases :

R10- Flammable.
R20/21- Harmful by inhalation and in contact with skin.
R41- Risk of serious damage to eyes.
R38- Irritating to skin.

Safety phrases :

S23- Do not breathe vapor.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S35- This material and its container must be disposed of in a safe way.
S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.
S51- Use only in well-ventilated areas.

Contains :

Xylene (mixture of isomers)

VOC for Ready-for-Use Mixture :

IIA/j. Two-pack reactive performance coatings for specific end use such as floors. EU limit values: 550g/l (2007) 500g/l (2010.)
This product contains a maximum of 493 g/l VOC.

Europe inventory :

Europe inventory: All components are listed or exempted.

Other EU regulations

CN code :

3208 90 91

15. REGULATORY INFORMATION

Industrial use : The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

16. OTHER INFORMATION

CEPE Classification : 1
Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK) : R10- Flammable.
 R22- Harmful if swallowed.
 R20/21- Harmful by inhalation and in contact with skin.
 R41- Risk of serious damage to eyes.
 R38- Irritating to skin.
 R37/38- Irritating to respiratory system and skin.
 R67- Vapors may cause drowsiness and dizziness.

The information in this Safety Data Sheet is required pursuant to EU Directive 91/155/EEC and its amendments.

✔ Indicates information that has changed from previously issued version.

Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties. ©Copyright by Rust-Oleum Netherlands B.V. / Martin Mathys B.V.



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