



SAFETY DATA SHEET

9101HS (Activator 9100 Finishes High Solids)

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

Product name and/or code : 9101HS (Activator 9100 Finishes High Solids)

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				
Polyetheramine, n.o.s.	-	10 - 25	-	Xi; R38
Polyaminoamide-adduct, n.o.s.	-	5 - 10	-	Xi; R38
Nonylphenol	25154-52-3	5 - 10	246-672-0	Xn; R22 C; R34 N; R50/53
Triethylenetetramine-C18 di-meric fatty acid adduct	68955-48-6	5 - 10	-	Xi; R38
Benzyl alcohol	100-51-6	2.5 - 5	202-859-9	Xn; R20/22
Cocoalkylamines	61788-46-3	1 - 2.5	262-977-1	C; R35
Trimethylhexamethylene-diamine (mixture of isomeres)	25620-58-0	1 - 2.5	247-134-8	Xn; R22 C; R34 R43 R52/53
2,4,6-Tri(dimethylaminomethyl)phenol	90-72-2	1 - 2.5	202-013-9	Xn; R22 Xi; R36/38
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 : R10- Flammable.
R35- Causes severe burns.
R43- May cause sensitization by skin contact.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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, CO₂, 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, CO₂), nitrogen oxides (NO, NO₂...). Some metallic 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 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. No sparking tools should be used.
- 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.
- Never use pressure to empty: container is not a pressure vessel. Always keep in containers made from the same material as the original one.
- Comply with the health and safety at work laws.
- Storage** : Store in accordance with local regulations. Observe label precautions. Store between 10 to 35°C (50 to 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 are opened must be carefully resealed and kept upright to prevent leakage.
Do not empty into drains..

8. Exposure controls/personal protection

- Engineering measures** : No special measures are required. General ventilation is typically sufficient. Provide eye wash and quick drench shower close to work station.
- 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.
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** : Product does not contain relevant quantities of materials with exposure values that have to be monitored. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
- Personal protective equipment**
- Respiratory system** : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Vapor respirator or a self-contained breathing apparatus.

9101HS (Activator 9100 Finishes High Solids)

Hands	: For prolonged or repeated handling, use gloves: polyvinyl alcohol or latex rubber. 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. (Thick oily liquid.)
Color	: Grayish white.
Odor	: Faint Odor
Specific gravity	: 1.37 (Water = 1)
pH	: 10 [Basic.]
Melting point	: 10°C (50°F)
Boiling point	: >120°C (248°F)
Auto-ignition temperature	: >500°C (932°F)
Flash point	: Closed cup: 42°C (107.6°F). (Setaflash.) When heated to decomposition it emits acrid smoke and irritating fumes.
Vapor pressure	: 0.8 kPa (6 mm Hg) (at 20°C)
Vapor density	: >1 (Air = 1)
Evaporation rate	: 0.7 compared to Butyl acetate.
Solubility	: Insoluble in cold water, hot water.
Viscosity	: Dynamic: >6000 cP
Volatility (%)	: 0% (v/v). 0% (w/w).
VOC (WW):	: 0 (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.

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 headaches, 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.

Contains (Trimethylhexamethylene-diamine (mixture of isomers), 3-Aminopropyldimethylamine). May produce an allergic reaction.

Potential acute health effects

Ingestion	: Harmful if swallowed. May cause burns to mouth, throat and stomach.
Inhalation	: Corrosive to the respiratory system. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.
Skin contact	: Corrosive to skin on contact. Skin contact may produce burns. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. May cause sensitization by skin contact.
Eye contact	: Very hazardous in case of eye contact (corrosive). Direct contact with the eyes can cause irreversible damage including blindness. Inflammation of the eye is characterized by redness, watering, and itching.
Other toxic effects on humans	: May cause sensitization by skin contact. The onset of symptoms may be delayed. 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. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

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

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
------------------------	-------------	---------------	--------------	----------------

9101HS (Activator 9100 Finishes High Solids)

Nonylphenol	LD50	1620 mg/kg	Oral	Rat
	LD50	1231 mg/kg	Oral	Mouse
	LD50	2140 mg/kg	Dermal	Rabbit
Benzyl alcohol	LD50	1230 mg/kg	Oral	Rat
	LD50	1580 mg/kg	Oral	Mouse
	LD50	1040 mg/kg	Oral	Rabbit
	LD50	2000 mg/kg	Dermal	Rabbit
	LCLo	2000 ppm (4 hour(s))	Inhalation	Rat
Trimethylhexamethylene-diamine (mixture of isomeres)	LD50	910 mg/kg	Oral	Rat
2,4,6-Tri(dimethylaminomethyl)phenol	LD50	1200 mg/kg	Oral	Rat
	LD50	1280 mg/kg	Dermal	Rat

Potential chronic health effects

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>Ingredient name</u>	<u>Result</u>	<u>Period</u>	<u>Species</u>	
Nonylphenol	Fathead minnow (pimephales promelas) (LC50)	96 hour(s)	0.135 mg/l	
	Rainbow trout (oncorhynchus mykiss) (LC50)	72 hour(s)	0.195 mg/l	
	Pimephales promelas (LC50)	96 hour(s)	0.128 mg/l	
	Pimephales promelas (LC50)	96 hour(s)	0.135 mg/l	
	Lepomis macrochirus (LC50)	96 hour(s)	0.209 mg/l	
	Oncorhynchus mykiss (LC50)	96 hour(s)	0.221 mg/l	
	Benzyl alcohol	Fathead minnow (pimephales promelas) (LC50)	96 hour(s)	460 mg/l
		Golden orfe (leuciscus idus) (LC50)	48 hour(s)	646 mg/l
		Bluegill sunfish (lepomis macrochirus) (LC50)	96 hour(s)	100 mg/l
Daphnia. (EC50)		24 hour(s)	55 mg/l	
2,4,6-Tri(dimethylaminomethyl)phenol	Fish.	96 hour(s)	180 to 240 mg/l	

<u>Ingredient name</u>	<u>Persistence/degradability</u>						<u>Bioaccumulative potential</u>		
	<u>BOD₅</u>	<u>COD</u>	<u>ThOD</u>	<u>Aquatic half-life</u>	<u>Photolysis</u>	<u>Biodegradability</u>	<u>LogP_{ow}</u>	<u>BCF</u>	<u>Potential</u>
Benzyl alcohol							1.1		low

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 ; : Type: Hazardous chemical waste.

Waste of residues ; : Location: European Union

Contaminated packaging : Classification: H3 (Flammable liquid)

Disposal.: via incineration


Storage: * (Storage of controlled substances must comply with applicable regulatory security requirements, Combustible materials should be stored away from extreme heat and away from strong oxidizing agents. Inside storage should be in a standard flammable liquids storage warehouse, room or cabinet. Outside or detached storage is preferred.)

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	2735	Polyamines, liquid, corrosive, n.o.s. Limited quantity (Polyetheramine, n.o.s.)	3	III		<u>Limited quantity</u> LQ19 <u>CEFIC Tremcard</u> 30G35 <u>Remarks</u> Limited Quantity - ADR/IMDG 3.4.6
IMDG Class	2735	Polyamines, liquid, corrosive, n.o.s. Limited quantity (Polyetheramine, n.o.s.)	3	III		<u>Emergency schedules (EmS)</u> F-E, S-C <u>Remarks</u> Limited Quantity - ADR/IMDG 3.4.6
IATA-DGR Class	2735	Polyamines, liquid, corrosive, n.o.s. (Polyetheramine, n.o.s.)	3.8	III		<u>Quantity limitation - Passenger Aircraft</u> 5 L <u>Quantity limitation - Cargo Aircraft</u> 60 L <u>Packaging instruction</u> 818 / 820

15. Regulatory information

EU Regulations

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

Hazard symbol(s)



Corrosive, Dangerous for the environment.

Risk Phrases

: R10- Flammable.
R35- Causes severe burns.
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- Avoid contact with skin.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.
S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S51- Use only in well-ventilated areas.
S56- Dispose of this material and its container at hazardous or special waste collection point.
S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.

Contains

: Nonylphenol 246-672-0
Cocoalkylamines 262-977-1
Trimethylhexamethylene-diamine (mixture of isomeres) 247-134-8

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.

EC Statistical classification (Tariff Code)

: 3909 30 00

16. Other information

Full text of R-phrases appearing in section 2:	: R10- Flammable. R20/22- Harmful by inhalation and if swallowed. R22- Harmful if swallowed. R34- Causes burns. R35- Causes severe burns. R36/38- Irritating to eyes and skin. R38- Irritating to skin. R43- May cause sensitization by skin contact. R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 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	: C - Corrosive Xn - Harmful Xi - Irritant N - Dangerous for the environment.

HISTORY

Date of printing	: 16-11-2004.	Date of issue	: 29-6-2004.
Version	: 1.08		
Prepared by	: RPM Europe - Department Environment, Health and Safety		

Notice to Reader

This is an internet download copy, for information purposes only. The information in this sheet is believed to be in compliance with EU regulations, but neither Rust-Oleum nor any of its subsidiaries can guarantee it's full correctness. Any data contained herein may possibly not be up-to-date and specific national regulations apply in addition to the EU regulations. Up-to-date information and specific national editions are available upon request from our H&S dept. at fax nr. +31 165 593 600 or email address RPMEUROHAS@RO-M.COM. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards may be described herein, we cannot guarantee that these are the only hazards that exist.

©Copyright by Rust-Oleum Netherlands B.V. / Martin Mathys B.V.