

SFS unimarket AG, HandelsSupport
9435 Heerbrugg

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

1.1 Product identifier

noverox Formule anti Rost

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

1.2.1 Relevant uses

Paint
Anti-rust Primer

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

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Rosenbergsaustasse 10
9435 Heerbrugg / SWITZERLAND
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Fax +41 71 886 28 80
Homepage www.sfsunimarket.biz
E-mail handelssupport@sfsunimarket.biz

Address enquiries to

Technical information Kurt Hollenstein: Tel. ++41-71-886 28 82/ Fax ++41-71-886 28 10
Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body 145 (24h) oder +41 44 251 51 51 (24h)
Company +41 71 886 28 28

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Flam. Liq. 3: H226 Flammable liquid and vapour.
Skin Sens. 1: H317 May cause an allergic skin reaction.
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms



Signal word

WARNING

Contains:

Tung oil

Hazard statements

H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271 Use only outdoors or in a well-ventilated area.
P261 Avoid breathing vapours / spray.
P280 Wear protective gloves / eye protection / face protection.
P333+P313 If skin irritation or rash occurs: Get medical advice / attention.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

2004/42/CE

293 g/l II A i SB One-pack performance coatings (max. 500 g/l)

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2.3 Other hazards

Physico-chemical hazards	Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.
Human health dangers	It is essential for pregnant women to avoid inhaling the product and not to let it come in contact with the skin.
Environmental hazards	Does not contain any PBT or vPvB substances.
Other hazards	Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
10 - 15	Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics
	EINECS/ELINCS: 923-037-2, Reg-No.: 01-2119471991-29-XXXX
	GHS/CLP: Aquatic Chronic 2: H411 - Asp. Tox. 1: H304 - - Flam. Liq. 3: H226
5 - 10	Tung oil
	CAS: 8001-20-5, EINECS/ELINCS: 232-272-3
	GHS/CLP: Skin Sens. 1: H317
5 - 10	Propan-2-ol
	CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0
	GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336
1 - 5	Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics
	EINECS/ELINCS: 918-167-1, EU-INDEX: 649-275-00-4, Reg-No.: 01-2119472146-39-XXXX
	GHS/CLP: Asp. Tox. 1: H304 - Aquatic Chronic 4: H413
1 - 5	Tannin
	CAS: 1401-55-4, EINECS/ELINCS: 215-753-2
	GHS/CLP: Skin Irrit. 2: H315 - Eye Irrit. 2: H319
0,1 - < 1	Nonylphenoxy(polyethylenoxy)ethanole
	CAS: 68412-54-4
	GHS/CLP: Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - Aquatic Chronic 2: H411
< 0,9	Tetrahydrofuran
	CAS: 109-99-9, EINECS/ELINCS: 203-726-8, EU-INDEX: 603-025-00-0
	GHS/CLP: Flam. Liq. 2: H225 - Carc. 2: H351 - STOT SE 3: H335 - Eye Irrit. 2: H319 -
0,1 - <1	Stoddard solvent
	CAS: 8052-41-3, EINECS/ELINCS: 232-489-3, EU-INDEX: 649-345-00-4
	GHS/CLP: - Asp. Tox. 1: H304 - Aquatic Chronic 2: H411 - Flam. Liq. 3: H226

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
 For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Take off contaminated clothing and wash before reuse.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
Skin contact	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
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.
Ingestion	Consult a doctor immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.

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4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Vertigo
Drowsiness
Headache

4.3 Indication of any immediate medical attention and special treatment needed

If swallowed or in the event of vomiting, risk of product entering the lungs.
Treat symptomatically.
Forward this sheet to the doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Foam, dry powder, water spray jet, carbon dioxide.
Extinguishing media that must not be used Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Not combusted hydrocarbons.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Do not inhale explosion and/or combustion gases.
Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
Ensure adequate ventilation.
Forms slippery surfaces with water.
Use personal protective equipment (protective gloves, safety glasses, protective clothing).

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provide suitable vacuuming at the processing area.
Provide good room ventilation even at ground level (vapours are heavier than air).
Use solvent-resistant equipment.

Keep away from all sources of ignition - Refrain from smoking.
Vapours can form an explosive mixture with air.
Ignitable mixtures can be formed in the empty container.
Ground/bond container and receiving equipment.
Use explosion-proofed equipment/fittings and non-sparking tools.

Take off contaminated clothing and wash before reuse.
Do not eat, drink or smoke when using this product.
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
Use barrier skin cream.
Contaminated work clothing should not be allowed out of the workplace.
Cloths contaminated with product should not be kept in trouser pockets.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Provide solvent-resistant and impermeable floor.
Prevent penetration into the ground.

Do not store together with oxidizing agents.
Do not store together with food and animal food/diet.

Keep container tightly closed.
Keep container in a well-ventilated place.
Protect from heat/overheating and from sun.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
Propan-2-ol
CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0
Long-term exposure: 400 ppm, 999 mg/m ³
Short-term exposure (15-minute): 500 ppm, 1250 mg/m ³
Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics
EINECS/ELINCS: 923-037-2, Reg-No.: 01-2119471991-29-XXXX
Long-term exposure: 1200 mg/m ³
Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics
EINECS/ELINCS: 918-167-1, EU-INDEX: 649-275-00-4, Reg-No.: 01-2119472146-39-XXXX
Long-term exposure: 1200 mg/m ³
Stoddard solvent
CAS: 8052-41-3, EINECS/ELINCS: 232-489-3, EU-INDEX: 649-345-00-4
Long-term exposure: 1200 mg/m ³
Tetrahydrofuran
CAS: 109-99-9, EINECS/ELINCS: 203-726-8, EU-INDEX: 603-025-00-0
Long-term exposure: 50 ppm, 150 mg/m ³ , Sk
Short-term exposure (15-minute): 100 ppm, 300 mg/m ³

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Tetrahydrofuran
CAS: 109-99-9, EINECS/ELINCS: 203-726-8, EU-INDEX: 603-025-00-0
Eight hours: 50 ppm, 150 mg/m ³ , H
Short-term (15-minute): 100 ppm, 300 mg/m ³

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Tightly fitting goggles. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. Viton, >480 min (EN 374-1/-2/-3). Gloves (solvent-resistant). Butyl rubber, >480 min (EN 374-1/-2/-3).
Skin protection	Solvent-resistant protective clothing.
Other	Avoid contact with eyes and skin. Do not inhale vapours. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. It is essential for pregnant women to avoid inhaling the product and not to let it come in contact with the skin.
Respiratory protection	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
Thermal hazards	No information available.
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	grey beige
Odor	characteristic
Odour threshold	not determined
pH-value	~3
pH-value [1%]	not applicable
Boiling point [°C]	not determined
Flash point [°C]	25
Flammability (solid, gas) [°C]	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	<110, [50°C]
Density [g/ml]	0,97 - 0,99
Bulk density [kg/m ³]	not applicable
Solubility in water	reacts with water virtually insoluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	13-18s (4mm DIN flow cup) 612 mm ² /s (40°C)
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not applicable
Decomposition temperature [°C]	not determined

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

Flammable gases/vapours.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Substance
Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics
LD50, dermal, Rabbit: >5000 mg/kg bw OECD 402.
LD50, oral, Rat: >5000 mg/kg bw OECD 401.
LC50, inhalative, Rat: >5000 mg/m ³ OECD 403.
Propan-2-ol, CAS: 67-63-0
LD50, dermal, Rabbit: 12800 mg/kg.
LD50, oral, Rat: 4570 mg/kg.
LC50, inhalative, Rat: 30 mg/l/4h.
Tannin, CAS: 1401-55-4
LD50, oral, mouse: 5000 mg/kg.
LD50, oral, Rat: 2260 mg/kg.
Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics
LD50, dermal, Rabbit: > 5000 mg/kg.
LD50, oral, Rat: > 5000 mg/kg.
Nonylphenoxy(polyethylenoxy)ethanole, CAS: 68412-54-4
LD50, dermal, Rat: > 2000 mg/kg.
LD50, oral, Rat: > 5000 mg/kg.

Serious eye damage/irritation	Based on the available information, the classification criteria are not fulfilled.
Skin corrosion/irritation	Based on the available information, the classification criteria are not fulfilled.
Respiratory or skin sensitisation	Toxicological data of complete product are not available. May cause an allergic skin reaction. Calculation method
Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — repeated exposure	Based on the available information, the classification criteria are not fulfilled.
Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Based on the available information, the classification criteria are not fulfilled.
Carcinogenicity	Toxicological data of complete product are not available. No classification. Calculation method
Aspiration hazard	Based on the available information, the classification criteria are not fulfilled.
General remarks	

Toxicological data of complete product are not available.
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.

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SECTION 12: Ecological information

12.1 Toxicity

Substance
Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics
EL0, (48h), Daphnia magna: 1000 mg/L (Lit.).
NOELR, (21d), Daphnia magna: < 1 mg/l.
NOELR, (72h), Pseudokirchneriella subcapitata: 1000 mg/L (Lit.).
LL0, (96h), Oncorhynchus mykiss: 1000 mg/L (Lit.).
Propan-2-ol, CAS: 67-63-0
LC50, (96h), Pimephales promelas: 9640 mg/l.
EC50, (72h), Scenedesmus subspicatus: > 1000 mg/l.
EC50, (48h), Daphnia magna: > 100 mg/l.
EC10, Pseudomonas putida: 5175 mg/l/18h (DIN 38412 T.8).
Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics
LC50, (96h), Oncorhynchus mykiss: > 1000 mg/l.
EC50, (48h), Daphnia magna: > 1000 mg/l.

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

Ecological data of complete product are not available.

The product was classified on the basis of the calculation procedure of the preparation directive.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Disposal in an incineration plant in accordance with the regulations of the local authorities.
Coordinate disposal with the authorities if necessary.

Waste no. (recommended)

080111*
200127*

Contaminated packaging

Untaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150110*

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID 1263

Inland navigation (ADN) 1263

Marine transport in accordance with IMDG 1263

Air transport in accordance with IATA 1263

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14.2 UN proper shipping name

Transport by land according to
ADR/RID

Paint

- Classification Code

F1

- Label



- ADR LQ

5 I

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (D/E)

Inland navigation (ADN)

Paint

- Classification Code

F1

- Label



Marine transport in accordance with
IMDG

Paint

- EMS

F-E, S-E

- Label



- IMDG LQ

5 I

Air transport in accordance with IATA

Paint

- Label



14.3 Transport hazard class(es)

Transport by land according to
ADR/RID

3

Inland navigation (ADN)

3

Marine transport in accordance with
IMDG

3

Air transport in accordance with IATA

3

14.4 Packing group

Transport by land according to
ADR/RID

III

Inland navigation (ADN)

III

Marine transport in accordance with
IMDG

III

Air transport in accordance with IATA

III

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14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not determined

SECTION 15: Regulatory information

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

EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2017).

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4

- **Observe employment restrictions for people** Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.

- **VOC (2010/75/CE)** 293 g/l

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H315 Causes skin irritation.
H413 May cause long lasting harmful effects to aquatic life.
H336 May cause drowsiness or dizziness.
H319 Causes serious eye irritation.
H225 Highly flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.

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16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV@/TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information**Classification procedure**

Flam. Liq. 3: H226 Flammable liquid and vapour. (On basis of test data)
 Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)
 Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

Modified position

SECTION 16 been added: GENERAL REVIEW [CLP; REACH-(EU) 2015/830]

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