

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 05.02.2020

Version number 5.00

Revision: 05.02.2020

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

· **1.1 Product identifier**

· **Trade name:**

Rofamin ST, STD

Rofamin STD-Flakes

· **CAS Number:**

124-30-1

· **EC number:**

204-695-3

· **Index number:**

612-282-00-8

· **Registration number 01-2119473804-32-0002**

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

No further relevant information available.

· **Application of the substance / the mixture**

Initial product for chemical reactions

Corrosion inhibitors

Metal-working product

Leather auxiliary

Textile auxiliary

Lubricant

Coating for fertilizers.

· **1.3 Details of the supplier of the safety data sheet**

· **Supplier:**

DHW Deutsche Hydrierwerke GmbH Rodleben /

Ecogreen Oleochemicals GmbH

Brambacher Weg 1

D-06861 Dessau-Rosslau

Germany

phone: ++49 / (0)34901 / 5484-60

fax: ++49 / (0)34901 / 5484-70

E-mail: [info@ecogreenoleo.de](mailto:info@ecogreenoleo.de)

· **Manufacturer:**

DHW Deutsche Hydrierwerke GmbH Rodleben

Brambacher Weg 1

D-06861 Dessau-Rosslau

Germany

phone: ++49 / (0)34901 / 898-0

fax: ++49 / (0)34901 / 898-202

E-mail: [info@dhw-ecogreenoleo.de](mailto:info@dhw-ecogreenoleo.de)

· **1.4 Emergency telephone number:**

++49 / (0)34901 / 898 - 0

Competent person: [reach@dhw-ecogreenoleo.de](mailto:reach@dhw-ecogreenoleo.de)

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**SECTION 2: Hazards identification**

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

STOT RE 2      H373      May cause damage to the liver, the digestive system and the immune system through prolonged or repeated exposure. Route of exposure: Oral.

Asp. Tox. 1      H304      May be fatal if swallowed and enters airways.



GHS05 corrosion

Eye Dam. 1      H318      Causes serious eye damage.



GHS09 environment

Aquatic Acute 1      H400 (M=10)      Very toxic to aquatic life.

Aquatic Chronic 1      H410 (M=10)      Very toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2      H315      Causes skin irritation.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008  
The substance is classified and labelled according to the CLP regulation.
- Hazard pictograms



GHS05



GHS08



GHS09

- Signal word **Danger**
- Hazard statements  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H373 May cause damage to the liver, the digestive system and the immune system through prolonged or repeated exposure. Route of exposure: Oral.  
H304 May be fatal if swallowed and enters airways.  
H410 Very toxic to aquatic life with long lasting effects.

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**Precautionary statements**

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
 P331 Do NOT induce vomiting.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards**

- Results of PBT and vPvB assessment** The substance is not classified as PBT or vPvB.

**SECTION 3: Composition/information on ingredients**

- 3.1 Chemical characterisation: Substances** Octadecylamine (Stearylamine)
- CAS No. Description**  
124-30-1 Octadecylamine
- Identification number(s)**
- EC number:** 204-695-3
- Index Number:** 612-282-00-8
- SVHC** The product does not contain any substances of very high concern (SVHC).

**SECTION 4: First aid measures**

- 4.1 Description of first aid measures**
- General information:**  
Take affected persons out of danger area and lay down.  
Involve doctor immediately.
- After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:**  
Remove immediately contaminated clothing and shoes. Wash skin immediately with 0,5% acetic acid in water, and then with soap and water.  
Call a doctor immediately.
- After eye contact:**  
Call a doctor immediately.  
In case of contact with eyes, rinse immediately with 0.5% acetic acid in water for a few minutes, followed by rinsing with plenty of water for as long as possible.
- After swallowing:**  
Do not induce vomiting! Call for medical help immediately.  
Drink plenty of water and provide fresh air. Call for a doctor immediately.
- 4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.

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- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### **SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.  
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
The substance is very toxic to fish. Not allow the quenching water into drains or surface waters.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
wear suitable protective clothing in dangerous zone  
Mount respiratory protective device.  
Do not inhale explosion gases or combustion gases.
- **Additional information** Cool endangered receptacles with water spray.

### **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### **SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** Prevent formation of dust.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Recommended storage temperature:**  
Avoid elevated temperatures.  
Solid: max. 25°C  
Liquid: approx. 65°C

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- **Storage class:** 11
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required!

#### · DNELs

Oral	DNEL	0.04 mg/kg bw/d (general population)
Dermal	DNEL	0.09 mg/kg bw/d (worker)
Inhalative	DNEL	0.38 mg/m <sup>3</sup> (worker)

#### · PNECs

PNEC - aquatic	0.26 µg/l (freshwater)
	26 µg/l (marinewater)
PNEC - Sediment	179.4 µg/kg dw (freshwater)
	17.94 µg/kg dw (marinewater)
PNEC - soil	10 mg/kg dw (-)
PNEC - Sewage treatment plant	550 µg/l (-)

- **Additional information:** The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

##### · **Personal protective equipment:**

##### · **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

##### · **Respiratory protection:**

required if dust is formed.

Use suitable respiratory protective device in case of insufficient ventilation.

##### · **Recommended filter device for short term use:** Combination filter A-P2

##### · **Protection of hands:**



Protective gloves

##### · **Material of gloves:** Nitrile rubber

##### · **Penetration time of glove material**

Glove material: Nitrile rubber

Layer thickness: 0.40 mm

Penetration time: > 480 min (Level 6)

Glove material: Nitrile rubber

Layer thickness: 0.10 mm

Penetration time: ≥ 30 min and < 60 min (Level 2)

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- **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**  
Nitrile rubber (i.e. KCL 730-Nitrile glove Camatril®)
- **As protection from splashes gloves made of the following materials are suitable:**  
Nitrile rubber (i.e. KCL 740 nitrile disposable gloves Dermatril®)
- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

## SECTION 9: Physical and chemical properties

### · 9.1 Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

· <b>Form:</b>	Flakes
· <b>Colour:</b>	White
· <b>Odour:</b>	Amine-like
· <b>Odour threshold:</b>	Not determined.

· **pH-value:** 11.4

#### · Change in condition

· <b>Melting point /Melting range:</b>	50 – 60 °C
· <b>Initial boiling point and boiling range:</b>	349 °C
· <b>Flash point:</b>	150 °C
· <b>Flammability (solid, gas):</b>	Product is not flammable.
· <b>Ignition temperature:</b>	265 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto-ignition temperature:</b>	Not determined.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Oxidising properties</b>	Not oxidizing.
· <b>Vapour pressure at 20 °C:</b>	< 0.0001 hPa
· <b>Density at 20 °C:</b>	0.81 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with water at 20 °C:</b>	4.875 E-5 g/l
· <b>Partition coefficient n-octanol/water (log P):</b>	7.7
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	60 °C: 7 mPas

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<b>Kinematic:</b>	Not applicable.
<b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**  
Reacts with oxidising agents.  
Strong exothermic reaction with acids.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide and carbon dioxide

**SECTION 11: Toxicological information**· **11.1 Information on toxicological effects**· **Acute toxicity**

Oral	LD50	2,395 mg/kg (rat) (OECD 401)
Dermal	LD50	> 2,000 mg/kg (rat) (OECD 402) read across
Inhalative	LD50	> 99 ppm (rat) (OECD 403) read across

Based on available data, the classification criteria are not met.

· **Primary irritant effect:**· **Skin corrosion/irritation**

Irritation of skin	Acute dermal irritation / corrosion	(rabbit) (OECD 404) irritating
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Causes skin irritation.

· **Serious eye damage/irritation**

Strong irritant with the danger of severe eye injury.

Irritation of eyes	Acute eye irritation / corrosion	(rabbit) (OECD 405) irritating
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Causes serious eye damage.

· **Respiratory or skin sensitisation**

Sensitisation	Guinea pig maximisation test	(guinea pig) (OECD 406) not sensitizing (read across)
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No sensitizing effects known.

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· **Repeated dose toxicity**

Oral	NOAEL	12.5 mg/kg (rat) (OECD 407) read across
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· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**· **Germ cell mutagenicity**

Genotoxicity - AMES-Test	(Salmonella Typhimurium) (OECD 471) negative
Genotoxicity - Mammalian Cell Gene Mutation Assay	(Mouse lymphoma cells) (OECD 476) negative (read across)
Genotoxicity - Micronucleus assay	(rat) (OECD 474) negative (read across)
Genotoxicity - Chromosome aberration assay	(Chinese Hamster Ovary Cells) (OECD 473) negative (read across) (mouse) (OECD 475) negative (read across)

Based on available data, the classification criteria are not met.

· **Carcinogenicity** Based on available data, the classification criteria are not met.· **Reproductive toxicity**

Oral	Developmental toxicity - NOAEL	> 10 mg/kg (rat) (US EPA: CFR 798.4700) read across
	Reproductive toxicity - NOAEL	12.5 mg/kg (rat) (OECD 421) read across

Based on available data, the classification criteria are not met.

· **STOT-single exposure** Based on available data, the classification criteria are not met.· **STOT-repeated exposure**

May cause damage to the liver, the digestive system and the immune system through prolonged or repeated exposure. Route of exposure: Oral.

· **Aspiration hazard**

May be fatal if swallowed and enters airways.

**SECTION 12: Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:**

EC50	0.12 – 62 mg/l (alga) (OECD 201) 130 mg/l (daphnia) (OECD 202)
LC50	1 – 10 mg/l (fish) (OECD 203)
Long term toxicity - NOEC	13 mg/l (daphnia) (OECD 211) read across hydrogenated tallow alkyl amine

· **12.2 Persistence and degradability** Easily biodegradable· **Method** OECD 301 F· **Analysing method** O<sub>2</sub>-consumption· **Degree of elimination:** 70 %

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- **Classification:** readily biodegradable
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

Terrestrial toxicity - LC50	> 1,000 mg/kg dw (earth worm) (OECD 207) read across tallow alkyl amine
Terrestrial toxicity - NOEC	> 200 mg/kg dw (earth worm) (OECD 222) read across > 100 mg/kg dw (plants) (OECD 208) read across tallow alkyl amine
Sediment toxicity - LC50	> 2,030 mg/kg dw (nematode) read across tallow alkyl amine

- **Remark:**

Very toxic for fish  
Very toxic for water fleas.  
Very toxic for algae

- **Additional ecological information:**

- **General notes:**

Water danger class 3 (German Regulation) (Assessment by list): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.  
Danger to drinking water if even extremely small quantities leak into the ground.  
Very toxic for aquatic organisms  
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- **12.5 Results of PBT and vPvB assessment** The substance is not classified as PBT or vPvB.
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

## SECTION 14: Transport information

- **14.1 UN-Number**

- **ADR, IMDG, IATA**

UN3077

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· **14.2 UN proper shipping name**  
· **ADR** 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Octadecylamine)  
· **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Octadecylamine), MARINE POLLUTANT  
· **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Octadecylamine)

· **14.3 Transport hazard class(es)**· **ADR, IMDG, IATA**

· **Class** 9 Miscellaneous dangerous substances and articles.  
· **Label** 9

· **14.4 Packing group**· **ADR, IMDG, IATA** III· **14.5 Environmental hazards:**

· **Marine pollutant:** P  
Yes (P)  
Symbol (fish and tree)  
· **Special marking (ADR):** Symbol (fish and tree)  
· **Special marking (IATA):** Symbol (fish and tree)

· **14.6 Special precautions for user**

Warning: Miscellaneous dangerous substances and articles.  
· **Danger code (Kemler):** 90  
· **EMS Number:** F-A,S-F  
· **Stowage Category** A  
· **Stowage Code** SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **ADR**  
· **Limited quantities (LQ)** 5 kg  
· **Excepted quantities (EQ)** Code: E1  
Maximum net quantity per inner packaging: 30 g  
Maximum net quantity per outer packaging: 1000 g  
· **Transport category** 3  
· **Tunnel restriction code** -

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· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5 kg
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· <b>UN "Model Regulation":</b>	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (OCTADECYLAMINE), 9, III

## SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Toxic Substances Control Act (TSCA): ACTIVE
- Philippines Inventory of Chemicals and Chemical Substances (PICCS): Substance is listed.
- Inventory of Existing Chemical Substances in China (IECSC): Substance is listed.
- Australian Inventory of Chemical Substances (AICS): Substance is listed.
- Existing and New Chemical Substances (ENCS, Japan): 2-176
- Priority Assessment Chemical Substance (Japan): Yes (registration number: 164)
- Korean Existing Chemical Inventory (KECI): KE-26325
- Canadian Domestic Substances List (DSL): Substance is listed.
- Existing Chemical Substances Inventory (ECSI, Taiwan): Substance is listed.
- New Zealand Inventory of Chemicals (NZIC): Substance is listed.
- Labelling according to Regulation (EC) No 1272/2008  
The substance is classified and labelled according to the CLP regulation.
- Hazard pictograms



GHS05 GHS08 GHS09

- **Signal word** Danger
- **Hazard statements**  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H373 May cause damage to the liver, the digestive system and the immune system through prolonged or repeated exposure. Route of exposure: Oral.  
H304 May be fatal if swallowed and enters airways.  
H410 Very toxic to aquatic life with long lasting effects.
- **Precautionary statements**  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P331 Do NOT induce vomiting.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P362+P364 Take off contaminated clothing and wash it before reuse.

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P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **Seveso category E1** Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57**  
The product does not contain any substances of very high concern (SVHC).
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Product Safety
- **Abbreviations and acronyms:**  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organisation  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
P: Marine Pollutant  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
NOAEL: No observed adverse effect level  
NOAEC: No observed adverse effect concentration  
LOAEL: Lowest observed adverse effect level  
LOAEC: Lowest observed adverse effect concentration  
NOEL: No observed effect level  
NOEC: No observed effect concentration  
LOEC: Lowest observed effect concentration  
BCF: Bio concentration factor  
EC50: Effect concentration, 50 percent  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
- **\* Data compared to the previous version altered.**