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Chemical  
Laboratories

## **SAFETY DATA SHEET**

### **EXAMIN SH 100**

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

**Trade name**

**EXAMIN SH 100**

**Use of the substance/preparation.**

Industry sector : Mining  
Type of use : Anticaking agent/collector for flotation

**Identification of the company**

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#### **2. Hazards identification**

Irritating to skin.  
Risk of serious damage to eyes.  
Very toxic to aquatic organisms.

#### **3. Composition/information on ingredients**

**Chemical characterization**

Amines, hydrogenated tallow alkyl

**CAS number :** 61788-45-2

**EINECS number :** 262-976-6

#### **4. First aid measures**

**General information**

Remove soiled or soaked clothing immediately

**After inhalation**

When inhaled remove to fresh air and seek medical aid.

**After contact with skin**

In case of contact with skin wash off immediately with soap and water  
Summon a doctor immediately.

**After contact with eyes**

Summon a doctor immediately.



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**After ingestion**

Summon a doctor immediately.

**Advice to doctor**

**Treatment**

Rinse the affected eye with edible vegetable oil.

Wash the affected skin alternately with edible vegetable oil and with soap.

## 5. Fire-fighting measures

**Suitable extinguishing media**

water spray jet

foam

carbon dioxide

dry powder

**Special hazards from the substance itself, its combustion products or from its vapours**

In case of fires, hazardous combustion gases are formed:

Nitrous gases (NO<sub>x</sub>)

**Special protective equipment for firefighting**

Use self-contained breathing apparatus

## 6. Accidental release measures

**Personal precautions**

Use personal protective clothing.

**Environmental precautions**

Do not allow to enter drains or waterways

**Methods for cleaning up/taking up**

Allow to solidify.

Take up mechanically

Pick up with binding agent (eg sand, sawdust). Rinse away rest with plenty of water or dilute acetic acid

Do not use chemical binders containing acids

## 7. Handling and storage

**Advice on safe handling**

Use only in well ventilated areas.

Open and handle container with care.

**Advice on storage compatibility**

Do not store with acids

**Further information on storage conditions**

Keep container tightly closed in a well-ventilated place



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## 8. Exposure controls / personal protection

### Occupational exposure controls

#### General protective measures

Avoid contact with skin  
Avoid contact with eyes

#### Hygiene measures

Observe the usual precautions when handling chemicals.

#### Hand protection :

For long-term exposure:  
Butyl rubber gloves.  
Minimum thickness (glove): not determined

With solid dry substances permeation is not to be expected, therefore the breakthrough-time for this protective glove has not been measured.

For short-term exposure (splash protection):  
Nitrile rubber gloves.  
Minimum thickness (glove): not determined

With solid dry substances permeation is not to be expected, therefore the breakthrough-time for this protective glove has not been measured.

These types of protective gloves are offered by various manufacturers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.

#### Eye protection :

safety glasses

#### Body protection :

protective clothing

## 9. Physical and chemical properties

<b>Form :</b>	solid
<b>Colour :</b>	white to yellow
<b>Odour :</b>	amine-like
<b>Pourpoint :</b>	approx. 45 °C Method : DIN/ISO 3016
<b>Boiling point :</b>	322 - 347 °C
<b>Flash point :</b>	> 150 °C Method : DIN/ISO 2592 (open cup)
<b>Ignition temperature :</b>	Not applicable
<b>Oxidizing properties :</b>	not tested.
<b>Self-ignition temperature :</b>	not tested.
<b>Flammability</b>	



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<b>Lower explosion limit :</b>	Not applicable
<b>Upper explosion limit :</b>	Not applicable
<b>Combustion number :</b>	not tested.
<b>Evaporation rate :</b>	Not applicable
<b>Vapour pressure :</b>	< 1 hPa (20 °C)
<b>Density :</b>	approx. 0,79 g/cm <sup>3</sup> (60 °C) Method : DIN 51757
<b>Bulk density :</b>	not tested.
<b>Vapour density in relation to air :</b>	Not applicable
<b>Solubility in water :</b>	insoluble
<b>Soluble in ... :</b>	fat not tested.
<b>pH value :</b>	Not applicable
<b>Octanol/water partition coefficient (log Pow) :</b>	7,57 Method : Calculated by Syracuse.
<b>Viscosity (dynamic) :</b>	3 mPa.s (70 °C)
<b>Viscosity (kinematic) :</b>	not tested.

## 10. Stability and reactivity

<b>Thermal decomposition :</b>	> 400 °C Method : DTA
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### Hazardous reactions

Evolution of heat under influence of acids.

## 11. Toxicological information

<b>Acute oral toxicity :</b>	LD50 > 2.000 mg/kg (rat) Method : OECD 401
<b>Acute inhalation toxicity :</b>	not tested.
<b>Acute dermal toxicity :</b>	not tested.
<b>Irritant effect on skin :</b>	irritant (rabbit) Method : OECD 404
<b>Irritant effect on eyes :</b>	risk of serious damage to eyes (rabbit eye) Method : OECD 405
<b>Sensitization :</b>	not tested.
<b>Mutagenicity :</b>	Not mutagenic in Ames Test.



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## 12. Ecological information

<b>Biodegradability :</b>	> 70 % Method : OECD 302B / ISO 9888 / EEC 88/302C 80 % (28 d) good degradability Method : OECD 301 B
<b>Fish toxicity :</b>	LC50 1 - 10 mg/l (96 h, zebra fish) Method : OECD 203
<b>Daphnia toxicity :</b>	EC50 0,13 mg/l (48 h, Daphnia magna) Method : OECD 202
<b>Algae toxicity :</b>	EC50 0,12 mg/l (72 h, Scenedesmus subspicatus) Method : OECD 201
<b>Bacteria toxicity :</b>	EC50 490 mg/l Method : OECD 209
<b>Chemical oxygen demand (COD) :</b>	3.380 mg/g
<b>Remarks</b>	By analogy with a product of similar composition

## 13. Disposal considerations

<b>Product</b>	In accordance with local authority regulations, take to special waste incineration plant
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## 14. Transport information

<b>ADR</b>	
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s.
Class:	9
Packing group:	III
UN no.	UN 3077
Primary risk:	9
Hazard no. :	90
Remarks	Shipment permitted
Hazard inducer(s):	STEARYLAMINE
<b>ADNR</b>	
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s.
Class:	9
Packing group:	III
UN no.	UN 3077
Primary risk:	9
Remarks	Shipment permitted
Hazard inducer(s):	STEARYLAMINE



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#### **RID**

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.  
Class: 9  
Packing group: III  
UN no. UN 3077  
Primary risk: 9  
Hazard no. : 90  
Remarks Shipment permitted  
Hazard inducer(s): STEARYLAMINE

#### **IATA**

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.  
Class: 9  
Packing group: III  
UN/ID number: UN 3077  
Primary risk: 9  
Remarks Shipment permitted  
Hazard inducer(s): STEARYLAMINE

#### **IMDG**

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.  
Class: 9  
Packing group: III  
UN no. UN 3077  
Primary risk: 9  
Remarks Shipment permitted  
Hazard inducer(s): STEARYLAMINE  
EmS : F-A S-F

### **15. Regulatory information**

#### **Labelling in accordance with EC-Directives**

hazard warning labelling compulsory  
Labelling according to CESIO

#### **Hazard symbols**

Xi Irritant  
N Dangerous for the environment

#### **Hazardous component(s) to be indicated on label**

Amines, hydrogenated tallow alkyl

**EC number:** 262-976-6

#### **R phrases**

38 Irritating to skin.  
41 Risk of serious damage to eyes.  
50 Very toxic to aquatic organisms.

#### **S phrases**

26.1 In case of contact with eyes, rinse thoroughly with edible oil and seek medical advice.  
28.5 After contact with skin, wash off immediately alternating with edible oil and soap.  
37/39 Wear suitable gloves and eye/face protection.  
61 Avoid release to the environment. Refer to special instructions/Safety data sheets.



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#### **Chemical Safety Assessment**

No Chemical Safety Assessment (CSA) is yet available for the substance, or for the ingredients of the preparation, which constitute(s) this product.

### **16. Other information**

Decimal notation: "Thousands" places are identified with a dot (example: 2.000 mg/kg means "two thousand mg/kg"). Decimal places are identified with a comma (example: 1,35 g/cm<sup>3</sup>).

The data are based on the current state of our knowledge, and are intended to describe the product with regard to the requirements of safety. The data should not be taken to imply any guarantee of a particular or general specification. It is the responsibility of the user of the product to ensure to his satisfaction that the product is suitable for the intended purpose and method of use. We do not accept responsibility for any harm caused by the use of this information. In all cases, our