

# SAFETY DATA SHEET

In accordance with 1907/2006 Annex II (2015/830) and  
1272/2008

(All references to EU regulations and directives are abbreviated into only the  
numeric term)

Issued 2016-08-

16

Version number

1.0

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

### 1.1. Product identifier

Trade name Multi Solid Detergent

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

Identified uses Detergent

### 1.3. Details of the supplier of the safety data sheet

Company Svenska Diskbolaget AB

Industrigatan23

23351 SVEDALA

Sweden

Telephone 040 405980

E-mail [info@diskbolaget.se](mailto:info@diskbolaget.se)

### 1.4. Emergency telephone number

Acute cases: Call 112, request poison information.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Corrosive (Category 1A), H314

### 2.2. Label elements

Hazard pictogram



Signal word Danger

Hazard statement

H314 Causes severe skin burns and eye damage

Precautionary statements

P280 Wear protective gloves, protective clothing and eye or face protection

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P310 Immediately call a doctor

### 2.3. Other hazards

Not indicated.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or  
Safety Sheet for Solid Multi Detergent

eliminated when mixed or diluted, see Section 16d.

Constituent	Classification	Concentration
<b>SODIUM HYDROXIDE</b>		
CAS No: 1310-73-2 EC No: 215-185-5	Met Corr 1, Skin Corr 1A; H290, H314	5 - 40 %
<b>SODIUM METASILICATE</b>		
CAS No: 6834-92-0 EC No: 229-912-9	Skin Corr 1B, STOT SE 3 <sub>resp</sub> ; H314, H335	5 - 40 %

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

#### **Generally**

Flush contaminated parts of the body immediately with large quantities of water. In case of large injuries, larger than the

palm of a hand, or if the the face has been exposed to the product, transport the person to hospital immediately. Never attempt to administer liquid, or anything else, to an unconscious person via the mouth.

#### **Upon breathing in**

Allow the injured person to rest in a warm place with fresh air, if symptoms persist seek medical attention.

#### **Upon eye contact**

Remove contact lenses immediately if possible.

Rinse the eye for several minutes with lukewarm water. Contact a physician. Important! Also flush during transport to hospital (eye specialist).

#### **Upon skin contact**

Wash with large quantities of water (emergency shower) and seek medical assistance.

Remove contaminated clothes.

#### **Upon ingestion**

Rinse mouth out thoroughly first with water, then SPIT OUT the rinse water. Drink at least half a litre of water and seek

medical advice. DO NOT INDUCE VOMITING.

### **4.2. Most important symptoms and effects, both acute and delayed**

Not indicated.

### **4.3. Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment.

## **SECTION 5: Fire-fighting measures**

### **5.1. Extinguishing media**

#### **Recommended extinguishing agents**

Extinguish with water mist, powder, carbon dioxide or alcoholresistant foam.

#### **Unsuitable extinguishing agents**

May not be extinguished with water dispersed under high pressure.

### **5.2. Special hazards arising from the substance or mixture**

Avoid that water used for extinguishing fire reaches drains. Water used for extinguishing fire should be handled according

to current regulations.

Corrosive gases can be dispersed in case of fire.

On contact with metals hydrogen gas may form, which can be explosive on being mixed with air.

### **5.3. Advice for fire-fighters**

When extinguishing fire, wear total-coverage clothing which protects against corrosive substances.

In case of fire use a respirator mask.

Cool closed containers that were exposed to fire with water.

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

### **6.1. Personal precautions, protective equipment and emergency procedures**

Use recommended safety equipment, see section 8.

Avoid inhalation and exposure to skin and eyes. Note that the rinsing-water may be corrosive.

Note that there is a risk of slipping if product is leaking/spilling.

In case of spillage in protected water, call the emergency services immediately, tel. 112 (in Europe).

**6.2. Environmental precautions**

Avoid release to drains, soil or watercourses.

Notify rescue services for larger spillage.

**6.3. Methods and material for containment and cleaning up**

Residues left behind after cleaning shall be treated as hazardous waste. For further information, contact the local authority

sanitisation works. Present this safety data sheet.

Small spills can be wiped up with a cloth or similar. Then flush the spill site with water. Larger spills

should first be covered with sand or earth and then be collected. Collected material should be disposed

according to Section 13.

**6.4. Reference to other sections**

Not indicated.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Handle in premises with good ventilation. Do not mix with other products.

Do not eat, drink or smoke in premises where this product is stored.

Do not inhale the product and avoid exposure to skin, eyes and clothing. Wash your hands after using the product.

Store this product separately from food items and keep it out of the reach of children and pets.

Work in order to avoid spillage. If spillage does occur, address it immediately in accordance with the directions specified in

Section 6 of this safety data sheet.

Remove clothes which have been splattered.

### 7.2. Conditions for safe storage, including any incompatibilities

Store tightly, in original packaging.

### 7.3. Specific end uses

See identified uses in Section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. National limit values

#### SODIUM HYDROXIDE

#### United Kingdoms (EH40/2005)

Short term exposure limit (STEL) 2 mg/m<sup>3</sup>

#### DNEL

No data available.

#### PNEC

No data available.

### 8.2. Exposure controls

In terms of minimizing risks, attention must be paid to the health hazards (see Sections 2, 3 and 10) of this product or any

of its ingredients according to EU directives 89/391 and 98/24 and national occupational legislation.

#### 8.2.1. Appropriate engineering controls

Emergency showers and eye-rinsing facilities must be available at the workplace.

#### Eye/face protection

Use protective glasses, safety goggles, or a visor.

#### Skin protection

Use protective gloves of butyl rubber, Viton or fluorine rubber, or get advice from an occupational medical expert about

alternative materials. Show this safety data sheet.

Where there is a risk of this corrosive substance splashing, use protective clothing. Protect all exposed skin from coming into contact with the product.

#### Respiratory protection

Use proper protective breathing protection when vapours/aerosols are formed, for example EN 143 or 149, type P2 or

FFP2.

#### 8.2.3. Environmental exposure controls

For limitation of environmental exposure, see Section 12.

## SECTION 9: Physical and chemical properties

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

a) Appearance Form: Solid.

b) Odour Weak

c) Odour threshold applicable	Not applicable
d) pH	0,1% = 11pH
e) Melting point/freezing point	35-40°C
f) Initial boiling point and boiling range	Not indicated
g) Flash point	Not indicated
h) Evaporation rate	Not indicated
i) Flammability (solid, gas) applicable	Not applicable
j) Upper/lower flammability or explosive limits	Not indicated
k) Vapour pressure	Not indicated
l) Vapour density	Not indicated
m) Relative density	1500g/lit
n) Solubility	Solubility in water: Soluble

- |  |                |
|--|----------------|
| o) Partition coefficient: n-octanol/water applicable | Not applicable |
| p) Auto-ignition temperature                         | Not indicated  |
| q) Decomposition temperature                         | Not indicated  |
| r) Viscosity   | Not indicated  |
| s) Explosive properties applicable                   | Not applicable |
| t) Oxidising properties applicable                   | Not applicable |

## 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

### 10.2. Chemical stability

The product is stable at normal storage and handling conditions.

### 10.3. Possibility of hazardous reactions

Reacts with certain metals under development of flammable and explosive hydrogen gas.

### 10.4. Conditions to avoid

Not indicated.

### 10.5. Incompatible materials

Avoid contact with other chemicals.

### 10.6. Hazardous decomposition products

Not indicated.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

The main risk with this product is its corrosive properties.

#### Acute toxicity

##### SODIUM HYDROXIDE

LD50 rabbit 24h: > 125 mg/kg Orally

LD50 rat 24h: > 500 mg/kg Orally

##### SODIUM METASILICATE

LD50 rat 24h: 850 mg/l Orally

#### Skin corrosion/irritation

The product is corrosive.

#### Serious eye damage/irritation

Not indicated.

#### Respiratory or skin sensitisation

The product does not contain any known allergens.

#### Germ cell mutagenicity

Not indicated.

#### Carcinogenicity

No carcinogenic effects have been reported for the substances in this product.

#### Reproductive toxicity

No toxic effects to reproduction have been reported for the substances in this mixture.

#### STOT-single exposure

Irritation or burns may occur in the respiratory tract if inhaled or ingested.

#### STOT-repeated exposure

Not indicated.

#### Aspiration hazard

Not indicated.

## SECTION 12: Ecological information

### 12.1. Toxicity

The product is not to be labelled as a environmental hazard. However, it is not inconceivable that large emissions, or

repeated small emissions, can have a harmful effect on the

environment. Prevent release on land, in water and drains.

**SODIUM HYDROXIDE**

LC50 Freshwater water flea (*Daphnia magna*) 48h: 30 mg/L

EC50 Freshwater water flea (*Daphnia magna*) 48 h: 100 mg/l

LC50 Fish 96h: 125 mg/L

LC50 Bluegill (*Lepomis macrochirus*) 48h: 99

mg/L IC50 Algae 72h: 10 mg/l



## SODIUM METASILICATE

EC50 Freshwater water flea (*Daphnia magna*) 48 h: 496 mg/l

IC50 Algae 72h: 15 mg/l

LC50 Zebra fish (*Brachydanio rerio*) 96h: 210 mg/l

### 12.2. Persistence and degradability

No information about persistence or degradability exists but there is no reason to suppose that the product is persistent.

### 12.3. Bioaccumulative potential

No information exists on bioaccumulation, but there is no cause for concern in respect of this.

### 12.4. Mobility in soil

The product is miscible with water and is therefore variable in soil and water.

### 12.5. Results of PBT and vPvB assessment

No chemical safety report has been executed.

### 12.6. Other adverse effects

The product is alkaline and may elevate pH locally, if released into water.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Waste handling of the product

This product is not usually recycled.

Discarded products must be disposed of as hazardous waste in accordance with regulations.

Not completely empty packaging can contain remnants of dangerous substances and should therefore be handled as hazardous waste according to the above. Completely empty packaging can be recycled.

Empty, rinsed packaging is sent for recycling where practicable. Observe local regulations.

Avoid discharge into sewers.

## SECTION 14: Transport information

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

### 14.1. UN number

3262 (alt. 1823, SODIUM HYDROXIDE SOLID)

### 14.2. UN proper shipping name

CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE, SODIUM METASILICATE)

### 14.3. Transport hazard class(es)

#### Class

8: Corrosive substances

#### Classification code (ADR/RID)

C6: Corrosive substances without subsidiary risk: Basic substances: Inorganic, solid

#### Subsidiary risk (IMDG)

No subsidiary risk according to IMDG

#### Labels



### 14.4. Packing group

Packing group II

### 14.5. Environmental hazards

Not applicable

### 14.6. Special precautions for user

#### Tunnel restrictions

Tunnel category: E

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

### 14.8 Other transport information

Transport category: 2; Highest total quantity per transported unit 333 kg or liters

Stowage category not indicated(IMDG)

## **SECTION 15: Regulatory information**

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

Not indicated.

## 15.2. Chemical safety assessment

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

### SECTION 16: Other information

#### 16a. Indication of where changes have been made to the previous version of the safety data sheet Revisions of this document

This is the first version

#### 16b. Legend to abbreviations and acronyms used in the safety data sheet

##### Full texts for Hazard Class and Category Code mentioned in section 3

Met Corr 1	May be corrosive to metals (Category 1)
Skin Corr 1A	Corrosive (Category
1A) Skin Corr 1B	Corrosive (Category
1B)	
STOT SE 3resp	Specific target organ toxicity - single exposure; May cause respiratory irritation (Category 3 resp)

#### Explanations of the abbreviations in Section 14

ADR European Agreement concerning the International Transport of Dangerous Goods by Road

RID Regulations concerning the International Transport of Dangerous Goods by Rail

IMDG International Maritime Dangerous Goods Code

ICAO International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada) IATA The International Air Transport Association

Tunnel restriction code: E; Passage through category E tunnels is strictly forbidden

Transport category: 2; Highest total quantity per transported unit 333 kg or liters

#### 16c. Key literature references and sources for data

##### Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list,

1272/2008 Annex I, as updated to 2016-08-16.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

##### Full texts for Regulations mentioned in this Safety Data Sheet

1907/2006 Annex II (2015/830) COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the

Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

1272/2008 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing

Directives 67/548/EEC and

1999/45/EC, and amending Regulation (EC) No 1907/2006

EH40/2005

89/391 COUNCIL DIRECTIVE (89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of

98/24 COUNCIL DIRECTIVE 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC)

1907/2006 REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

**16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification**

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in

accordance with 1272/2008 Annex I , where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI .

**16e. List of relevant hazard statements and/or precautionary statements**  
**Full texts for hazard statements mentioned in section 3**

H290 May be corrosive to metals

(Category 1) H314 Corrosive (Category

1B)

H335 Specific target organ toxicity - single exposure; May cause respiratory irritation (Category 3 resp)

**16f. Advice on any training appropriate for workers to ensure protection of human health and the environment**

**Warning for misuse**

This product can cause severe injuries if used improperly. Read and follow carefully the instructions in this safety sheet and

other appropriate risk information. At professional use the employer is responsible for the staff being well aware of the risks.

**Other relevant information**

**Editorial information**



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