



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Hobart® Hygiene Tabs intensiv

Print date: 17.03.2015

Product code: 662255201

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

1.1. Product identifier

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

Use of the substance/mixture

Cleaning agent, acidic.

1.3. Details of the supplier of the safety data sheet

Company name:	HOBART GmbH	
Street:	Robert-Bosch-Strasse 17	
Place:	D-77656 Offenburg	
Telephone:	+49 (0) 781.600-0	Telefax: +49 (0) 781.600-23 19
e-mail:	info@hobart.de	
Internet:	www.hobart.de	
Responsible Department:	Dr. Timo Gans-Eichler Chemieberatung Raesfeldstr. 22 D-48149 Münster	e-mail: info@tge-consult.de Tel.: +49 (0)251/924520-60 www.tge-consult.de

1.4. Emergency telephone number:

Poison Center Berlin: +49 (0) 30-19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: Xi - Irritant
 R phrases:
 Irritating to skin.
 Risk of serious damage to eyes.
 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:
 Skin corrosion/irritation: Skin Irrit. 2
 Serious eye damage/eye irritation: Eye Dam. 1
 Hazardous to the aquatic environment: Aquatic Chronic 3
 Hazard Statements:
 Causes skin irritation.
 Causes serious eye damage.
 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazardous components which must be listed on the label

sodium silicate
 Fatty alcohol alkoxyolate 2

Signal word: Danger

Pictograms: GHS05





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Hazard statements

- H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
 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 POISON CENTER/doctor.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
226-218-8	sulfamic acid, sulphamic acid, sulphamidic acid	>=25 %
5329-14-6	Xi - Irritant R36/38-52-53	
016-026-00-0	Eye Irrit. 2, Skin Irrit. 2, Aquatic Chronic 3; H319 H315 H412	
237-623-4	sodium silicate	20 - < 25 %
13870-28-5	Xi - Irritant R41	
	Eye Dam. 1; H318	
01-2119485031-47		
	Fatty alcohol alkoxyolate 2	1 - < 5 %
	Xi - Irritant R36	
	Eye Dam. 1, Aquatic Chronic 3; H318 H412	
02-2119548485-30		

Full text of R-, H- and EUH-phrases: see section 16.

Further Information

Product does not contain listed SVHC substances.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

After inhalation

Provide fresh air. In case of irritation of the respiratory tract seek medical advice.

After contact with skin

Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

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After ingestion

Rinse mouth thoroughly with water. Do not induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

Irritating to skin.
Causes serious eye damage.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray. Carbon dioxide (CO₂). Extinguishing powder.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide. Sulfur oxides Nitrogen oxides (NO_x) Silicon dioxide.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical resistant suit. In case of fire and/or explosion do not breathe fumes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Beat down dust with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid generation of dust.
Do not breathe dust. Avoid contact with skin, eye and clothing.
Wear personal protection equipment. (refer to chapter 8)

6.2. Environmental precautions

Do not empty into drains or the aquatic environment. Prevent spreading over great surfaces (e.g. by damming or installing oil booms).

6.3. Methods and material for containment and cleaning up

Remove mechanically, placing in appropriate containers for disposal. Avoid generation of dust.
Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear personal protection equipment. (refer to chapter 8)
Avoid contact with skin, eye and clothing.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Further information on handling

Conditions to avoid: Generation/formation of dust
General protection and hygiene measures: refer to chapter 8

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7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place.

Advice on storage compatibility

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances.
Infectious substances.
alkali

Further information on storage conditions

Protect against: heat.

7.3. Specific end use(s)

refer to chapter 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
13870-28-5	sodium silicate			
Worker DNEL, long-term		dermal	systemic	318 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	11,12 mg/m ³
Consumer DNEL, long-term		dermal	systemic	159 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	2,39 mg/m ³
Consumer DNEL, long-term		oral	systemic	1,59 mg/kg bw/day

PNEC values

CAS No	Substance	Value
13870-28-5	sodium silicate	
Freshwater		7,5 mg/l
Marine water		7,5 mg/l
Freshwater sediment		29,4 mg/kg
Marine sediment		29,4 mg/kg
Soil		1,4 mg/kg
Micro organisms in sewage treatment plants (STP)		28 mg/l

Additional advice on limit values

DNEL/DMEL and PNEC values
sodium silicate (CAS-No.: 13870-28-5)
oral. PNEC = 106 mg/kg (Feed.)

8.2. Exposure controls



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Appropriate engineering controls

Provide for sufficient ventilation and punctiform suction at critical points.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Protective and hygiene measures

Always close containers tightly after the removal of product. When using do not eat, drink or smoke. Wash hands before breaks and at the end of work. Change contaminated clothing.

Eye/face protection

Tightly sealed safety glasses. DIN EN 166

Hand protection

Wear suitable gloves. Suitable material: Butyl rubber. NBR (Nitrile rubber).

Before using check leak tightness / impermeability. In case of reutilization, clean gloves before taking off and store in well-aired place.

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Skin protection

Protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection required in case of:

insufficient ventilation.

exceeding critical value

Generation/formation of dust

Suitable respiratory protective equipment: particulates filter device (DIN EN 143). Type P-2/3

The filter class must be suitable for the maximum contaminant concentration

(gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!

Environmental exposure controls

Do not empty into drains or the aquatic environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	solid
Colour:	white
Odour:	odourless

pH-Value: 2 (2g/l)

Changes in the physical state

Melting point: not determined

Flash point: not determined

Explosive properties

none/none

Ignition temperature: not determined

Auto-ignition temperature

Test method



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Solid: not determined

Oxidizing properties
none/none

Vapour pressure: not determined

Density (at 20 °C): 1,7 g/cm³

Water solubility:
(at 20 °C) miscible.

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal storage and handling conditions.

10.2. Chemical stability

Stable under normal storage and handling conditions.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Keep away from heat. (T >200 °C)

10.5. Incompatible materials

Oxidizing agents, strong. strong alkalis.

10.6. Hazardous decomposition products

Ammonia. Nitrogen oxides (NO_x) Sulfur oxides.

Can be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide. Sulfur oxides Nitrogen oxides (NO_x) Silicon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
5329-14-6	sulfamic acid, sulphamic acid, sulphamidic acid				
	oral	LD50	>2000 mg/kg	Rat	IUCLID
	dermal	LD50	>2000 mg/kg	Rat	ECHA Dossier
13870-28-5	sodium silicate				
	oral	LD50	2507 mg/kg	Rat.	MSDS extern
	inhalative (4 h) aerosol	LC50	>3,510 mg/l	Rat.	MSDS extern
	Fatty alcohol alkoxylyate 2				
	oral	LD50 mg/kg	>2000-5000	Rat.	MSDS extern

Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

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Sensitising effects

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

STOT-single exposure

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

Severe effects after repeated or prolonged exposure

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

sodium silicate:

Subchronic oral toxicity (180d, Rat.) NOAEL = >159 mg/kg; literature information: MSDS extern.

Carcinogenic/mutagenic/toxic effects for reproduction

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

sulfamic acid, sulphamic acid, sulphamidic acid:

In-vitro mutagenicity: OECD Guideline 471 (Bacterial Reverse Mutation Assay) = negative. literature information: ECHA Dossier

OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) = negative. literature information: ECHA Dossier

sodium silicate:

No experimental indications of mutagenicity in-vitro exist. literature information: MSDS extern.

No experimental indications of mutagenicity in-vivo exist. literature information: MSDS extern.

Longterm experiments do not indicate carcinogenic effects. literature information: MSDS extern.

Animal experiments indicate reproductive toxicity. literature information: MSDS extern.

Aspiration hazard

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

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
5329-14-6	sulfamic acid, sulphamic acid, sulphamidic acid					
	Acute fish toxicity	LC50	70,3 mg/l	96 h	Pimephales promelas	ECHA Dossier
	Acute algae toxicity	ErC50	48 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier
	Acute crustacea toxicity	EC50	71,6 mg/l	48 h	Daphnia magna	ECHA Dossier
13870-28-5	sodium silicate					
	Acute fish toxicity	LC50	>500 mg/l	96 h	Brachydanio rerio	MSDS extern
	Acute crustacea toxicity	EC50	491 mg/l	48 h	Daphnia magna	MSDS extern
	Crustacea toxicity	NOEC	18 mg/l	3 d	Scenedesmus subspicatus	MSDS extern
	Acute bacteria toxicity		(720 mg/l)		activated sludge	MSDS extern
	Fatty alcohol alkoxyolate 2					
	Acute fish toxicity	LC50	>1-10 mg/l	96 h	Leuciscus idus	MSDS extern.
	Acute crustacea toxicity	EC50	>1-10 mg/l	48 h		MSDS extern.
	Algea toxicity	NOEC	>0,1-1 mg/l	3 d	Selenastrum capricornutum	MSDS extern.

12.2. Persistence and degradability

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
	Fatty alcohol alkoxyolate 2				
	OECD 301B; ISO 9439; 92/69/EWG, C.4-C	>60%	28	MSDS extern.	
	Product is biodegradable.				

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12.3. Bioaccumulative potential

No indication of bio-accumulation potential.

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Waste disposal according to official state regulations. Consult the local waste disposal expert about waste disposal. Cleaned containers may be recycled.

Waste disposal number of waste from residues/unused products

060199 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of acids; wastes not otherwise specified

Waste disposal number of used product

060199 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of acids; wastes not otherwise specified

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances
Classified as hazardous waste.

Contaminated packaging

Handle contaminated packaging in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN 2967
<u>14.2. UN proper shipping name:</u>	SULPHAMIC ACID
<u>14.3. Transport hazard class(es):</u>	8
<u>14.4. Packing group:</u>	III
Hazard label:	8



Classification code:	C2
Limited quantity:	5 kg
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

Other applicable information (land transport)

Excepted quantity: E1

Inland waterways transport (ADN)

<u>14.1. UN number:</u>	UN 2967
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14.2. UN proper shipping name: SULPHAMIC ACID

14.3. Transport hazard class(es): 8

14.4. Packing group: III

Hazard label: 8



Classification code: C2

Limited quantity: 5 kg

Other applicable information (inland waterways transport)

Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 2967

14.2. UN proper shipping name: SULPHAMIC ACID

14.3. Transport hazard class(es): 8

14.4. Packing group: III

Hazard label: 8



Marine pollutant: NO

Special Provisions: -

Limited quantity: 5 kg

EmS: F-A, S-B

Other applicable information (marine transport)

Excepted quantity: E1

Air transport (ICAO)

14.1. UN number: UN 2967

14.2. UN proper shipping name: SULPHAMIC ACID

14.3. Transport hazard class(es): 8

14.4. Packing group: III

Hazard label: 8



Special Provisions: A803

Limited quantity Passenger: 5 kg

IATA-packing instructions - Passenger: 860

IATA-max. quantity - Passenger: 25 kg

IATA-packing instructions - Cargo: 864

IATA-max. quantity - Cargo: 100 kg

Other applicable information (air transport)

Passenger-LQ: Y845

Excepted quantity: E1

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

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14.6. Special precautions for user

refer to chapter 6-8

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

irrelevant

SECTION 15: Regulatory information

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

EU regulatory information

Additional information

The preparation is dangerous in the sense of Directive 1999/45/EC.

This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

Not subject to regulation 96/82/EC.

National regulatory information

Employment restrictions:

Observe employment restrictions for young people.

Water contaminating class (D):

1 - slightly water contaminating

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
sodium silicate

SECTION 16: Other information

Changes

Rev. 1.00; 29.01.2015 Initial release

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

CAS Chemical Abstracts Service

DNEL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect level

NTP: National Toxicology Program

N/A: not applicable

OSHA: Concerning the International Transport of Dangerous Goods by Rail)

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

SARA: Superfund Amendments and Reauthorization Act

SVHC: substance of very high concern

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TSCA: Toxic Substances Control Act
VOC: Volatile Organic Compounds
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe
WGK: Wassergefährdungsklasse

Relevant R-phrases (Number and full text)

- 36 Irritating to eyes.
- 36/38 Irritating to eyes and skin.
- 41 Risk of serious damage to eyes.
- 52 Harmful to aquatic organisms.
- 53 May cause long-term adverse effects in the aquatic environment.

Relevant H- and EUH-phrases (Number and full text)

- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)