Section 1: Identification of the substance or mixture and of the company

1.1 Product identifier

SANOMAT

1.2 Relevant identified uses of the mixture and uses advised against

Use of the substance/mixture

Heavy-duty detergents - Chemothermal laundry disinfection
Uses that are not recommended:
All uses not expressly indicated on the label on the packaging of the product.

1.3 Details of the supplier providing the safety data sheet

Company name:	Rösch Austria GmbH
Street:	Goethestrasse 5, 6850 Dornbirn
Place:	6850 Dornbirn
	Austria

1.4 Emergency number

Tel:	0043 5572 377 000
Fax:	0041 78 898 8953

Section 2: Potential risks

2.1 Classification of the substance or mixture

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

Hazard categories:
Eye irritation. 2
Causes severe eye irritation.

2.2 Marking elements

Hazard-determining component(s) for labelling:

2-amino-ethanol

Signa lword:	Attention
Pictograms:	GHS07

Danger warnings

H319	Causes severe eye irritation.

Safety Instructions

P101	If medical advice is required, have packaging or identification label ready.
P102	Keep out of the reach of children. Reaction
P305+P351+P338	IN CONTACT WITH EYES: Gently rinse with water for a few minutes. Remove existing contact lenses if possible. Continue rinsing.
P337+P313	If irritation to eyes persists: Seek medical advice/attention.

Special labelling of certain mixtures

Content (Regulation EC 648/2004):
15% < 30% oxygen-based bleaching agents, 5% < 15% zeolites, < 5% optical brighteners, fragrances, anionic surfactants, nonionic surfactants, soap, TAED, phosphonates, polycarboxylates

2.3 Other risks

The substance/mixture does NOT contain PBT/vPvB substances according to Regulation (EC) No 1907/2006, Annex XIII

No information on further dangers.

Section 3: Composition/information on ingredients

3.1 Mixtures

Dangerous ingredients

See paragraph 16 for the full text of the risk phrases and risk statements.

Substance	Concentration	Classification	CAS	EINECS	REACh
Sodium carbonate	>20 <= 30%	Xi; R36 Eye Irrit. 2, H319	497-19-8	207-838-8	01-2119485498-19
Sodium percarbonate	>10 <= 20%	O; R8 Xn; R22 Xi; R41 Ox. Sol. 3, H272; Acute Tox. 4, H302; Eye Dam. 1, H318	15630-89-4	239-707-6	01-2119457268-30
Sodium silicates	>1 <= 5%	Xi; R37/38 Xi; R41 Skin Irrit. 2, H315; Eye Dam. 1, H318; STOT SE 3, H335	1344-09-8	215-687-4	01-2119448725-31
Benzenesulfonic acid, C1013-alkyl derivatives, sodium salts	>1 <= 5%	Xn; R22 Xi; R38 Xi; R41 Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H31	68411-30-3	270-115-0	01-2119489428-22-0046
Alcohols, C12-13-branched and linear ethoxylated (> 5 - 10 EO)	>1 <= 5%	Xn; R22 Xi; R41 Acute Tox. 4, H302; Eye Dam. 1, H318	160901-19-9	931-954-4	N.A. (Polymer)

Wording of H and EUH phrases: see paragraph 16.

Section 4: First aid measures

4.1 Description of first aid measures

After inhalation

Ventilate the area. Remove the contaminated patient from the area immediately and store it quietly in a well-ventilated area. If you feel unwell, contact a doctor immediately.

After skin contact

rinse thoroughly with water.

After eye contact

In case of contact with eyes, immediately rinse open eyes thoroughly with water for 10 minutes and then protect your eyes with dry, sterile gauze. Consult a doctor immediately

After ingestion

Not dangerous. You can put activated carbon in water or medical paraffin oil.

4.2 Main acute and delayed symptoms and effects

There is no information available.

4.3 Indications of immediate medical attention or special treatment

Symptomatic treatment.

Section 5: Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Spray water, CO2, foam or chemical dry extinguishing agents, depending on the materials caught in the fire.

Fire protection measures for prevention:

Fire protection measures for prevention: Water is only sprayed to cool the surfaces of the container in case of fire.

5.2 Special risks arising from the substance or mixture

There is no information available.

5.3 Instructions for fire fighting

Keep breathing apparatus nearby Safety helmet and full protective suit. Jet water can be used to protect the persons involved in the extinguishing process. You can also use breathing masks, especially when working in confined or poorly ventilated areas or when using halogenated fire extinguishers (Halon 1211, Fluorene, Solkan 123, NAF, etc ...). Cool the containers with spray water.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personnel not trained for emergency situations:

Leave the vicinity of the release. Do not smoke. Wear mask, gloves and protective clothing.

Emergency personnel: Wear protective mask, gloves and clothing. Keep away from any naked flames and possible sources of ignition. Do not smoke. Provide adequate ventilation. Clear the danger zone and consult an expert if necessary.

6.2 Environmental protection measures

Leaked material: Inform the competent authority. Dispose of the leftovers in accordance with the regulations.

6.3 Methods and material for retention and cleaning up

Containment: Cover the product quickly, wear a mask and protective clothing. If possible, collect the product for recycling or disposal.

Cleaning: Wash the area and affected materials with water after wiping.

6.4 Reference to other sections

See sections 8 and 13

Section 7: Handling and storage

7.1 Safety measures for safe handling

Avoid contact and inhalation of the vapours. Observe paragraph 8. Do not eat or drink at work.

7.2 Conditions for safe storage taking into account incompatibilities

Keep tightly closed and in the original container. Do not store in open or unlabelled containers. Keep the containers upright and safe, so that any falling or collision is avoided. Avoid contact with flammable materials. Store in a cool place away from heat sources and without direct sunlight.

7.3 Specific end uses

Private households (= public = consumers): Store in cool and dry places.

Public sector (administration, education, entertainment, services, craftsmen): Handle with care. Keep the containers tightly closed, in a well-ventilated place, protected from direct sunlight.

Section 8: Exposure controls/personal protection

8.1 Parameters to be monitored

No data available for the mixture.

Contained substances:

Sodium carbonate

EXPOSURE LIMIT VALUES

Sodium carbonate

SAEL (Solvay Acceptable Exposure Limit) 2007

TWA = 10 mg/m3

IN THE USA. ACGIH limit values for thresholds

Comments: not specified

Sodium percarbonate

DNEL: end-use: Employees

Route of exposure: skin

Possible health consequences: May cause irritation to eyes and skin.

Value: 12.8 mg / cm ²

Acute, local effects

DNEL: end-use: Employees

Route of exposure: Inhalation

Value: 5 mg / m³

In the long term, local effects DNEL: End-Use: Using Consumer Route of Exposure: Skin Potential health consequences: May cause irritation to eyes and skin. Value: 6.4 mg / cm ² Acute, local effects PNEC: Fresh Water Value: 0.035 mg / l PNEC: Seawater Value: 0.035 mg / l PNEC: Using Batch / release Value: 0.035 mg / l PNEC STP Value: 16.24 mg / l

Silicic acid, sodium salt DN (M) for workers chronic systemic effects, contact skin/eyes, DNELS 1.59 (mg/kg bw/day), toxic for continuous dosing chronic systemic effects, inhalation, DNELS 5.61 (mg/m), toxic for continuous dosing DN (M) for the consumer chronic systemic effects, contact skin/eyes, DNELS 0.8 (mg/kg bw/day), toxic for continuous dosing chronic systemic effects, inhalation, 1.38 DNEL (mg/m), toxic for continuous dosing chronic systemic effects, ingesting, DNELS 0.8 (mg/kg bw/day), toxic for continuous dosing PNEC descriptors: Aquatic freshwater PNEC-7.5 mg/l Aquatic-acqua marina PNEC 1 mg/l Aquatic-discontinuous PNEC release 7.5 mg/l PNEC sewage treatment plant 348 mg/l

Benzensulfonsäure, C10-13-Alkyl-Derivate, Natriumsalze Benzenesulfonic acid, C10-13-alkyl derivs., Sodium salts Workers, Dermal, Acute exposure / short term - Systemic effect: Not applicable / not applicable Workers, Inhalation, Acute exposure / short term – Systemic effect: Not applicable / not applicable Workers, Dermal, Acute exposure / short term - Local effects: Not applicable / not applicable Workers, Inhalation, Acute exposure / short term - Local effects: Not applicable / not applicable Workers, Dermal, Exposure to long-term - a whole: 170 mg / kg in reference to body weight and day Workers, inhalation, Long-term exposure – Systemic effect: 12 mg/m3 Workers, Dermal, Exposure to long-term - Local effects: Not applicable / not applicable Workers, inhalation, Long-term exposure - Local effects: 12 mg/m3

8.2 Exposure controls and monitoring

Protection and hygiene measures

Remove contaminated clothing.

Wash hands before breaks and at the end of work.

Do not eat, drink or smoke at work.

Eye/face protection

Wear eye/face protection. (EN 166)

Hand protection

When handling chemical agents, only chemical protective gloves with CE mark including four-digit test number may be worn.

Penetration time (maximum wearing time) >480 min.

A list of suitable brands with detailed information on the wearing time is available on request.

Body protection

Wear suitable work clothing.

Respiratory protection

Use only in well-ventilated areas.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical characteristics

State of aggregation:	liquid
Color:	
Odour:	perfumed

		Testing standard
pH-value (at 20 °C):	13,2 – 13,5	
Changes of state		
Melting point:	approx. 0 °C	
Initial boiling point and boiling range:	approx. 100 °C	
Flash point:	not applicable	

Flammability

Solid:	not applicable
Gas:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined

Auto-ignition temperature

Solid:	not applicable
Gas:	not applicable
Decomposition temperature:	not determined

Oxidizing properties

Not oxidizing.

Vapour pressure:	not determined
Density (at 25 °C):	1.06 g/cm³
Water solubility:	completely miscible

Solubility in other solvents

undetermined

Allocation coefficient:	not determined
Dyn. viscosity (at 25 °C):	< 10 mPa-s
Vapour density:	not determined

9.2 . Other information

Solid content:	not determined

Section 10: Stability and reactivity

10.1 Reactivity

Exothermic reaction with: acid

10. chemical stability

The product is stable when stored at normal ambient temperatures.

10.3 Possibility of dangerous reactions

Exothermic reaction with: acid

10.4 Conditions to avoid

The product is stable when stored at normal ambient temperatures.

10.5 Incompatible materials

Acid

10.6 Hazardous decomposition products

No dangerous decomposition products are known.

Section 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

CAS-no.	Chemical				
	Exposure route	Method	Dose	Species	Source
112-34-5	2-(2-Butoxyethoxy)ethanol (vgl. Butyldiglykol)				
	oral	LD50	> 2000 mg/kg	Rat	ATE
	dermal	LD50	> 2000 mg/kg	Rat	ATE
	inhalativ Dampf	LC50	> 20 mg/l	Rat	ATE
100-51-6	Benzylalkohol				
	oral	LD50	1230 mg/kg	Rat	
	dermal	LD50	2000 mg/kg	Rabbit	
	inhalativ Dampf	ATE	11 mg/l		
	inhalativ Aerosol	ATE	1,5 mg/l		
141-43-5	2-Amino-ethanol (vgl. Ethanolamin)				
	oral	LD50	1515 mg/kg	Rat	
	dermal	LD50	1025 mg/kg	Rabbit	IUCLID
	inhalativ Dampf	LC50	11 mg/l		
	inhalativ Aerosol	LC50	1,5 mg/l		
15763-76-5	Natriumcumolsulfonat				
	oral	LD50	> 7000 mg/kg	Rat	
	dermal	LD50	> 2000 mg/kg	Rabbit	
	inhalativ Dampf	LC50	> 20 mg/l	Rat	ATE
	inhalativ Aerosol	LC50	> 5 mg/l	Rat	ATE
6834-92-0	Dinatriummetasilikat				
	oral	LD50	> 2000 mg/kg	Rat	ATE
	dermal	LD50	> 2000 mg/kg	Rat	ATE
	inhalativ Aerosol	LC50	> 5 mg/l	Rat	ATE
111-76-2	2-Butoxy-ethanol (vgl. Butylglykol)				
	oral	LD50	500 mg/kg	Rat	ATE
	dermal	LD50	> 2000 mg/kg	Rat	ATE
	inhalativ Dampf	LC50	> 20 mg/l	Rat	ATE
	inhalativ Aerosol	ATE	1,5 mg/l		
68439-46-3	Alkylpolyethoxilat				
	oral	LD50	> 2000 mg/kg	Rat	OECD 401
	dermal	LD50	> 2000 mg/kg	Rat	ATE
	inhalativ Aerosol	LC50	> 20 mg/l	Rat	ATE
1310-73-2	Natriumhydroxid				
	oral	LD50	> 2000 mg/kg	Rat	ATE
	dermal	LD50	> 2000 mg/kg	Rat	ATE

	inhalativ Aerosol	LC50	> 20 mg/l	Rat	ATE
5989-27-5	(R)-p-Mentha-1,8-dien				
	oral	LD50	> 2000 mg/kg	Rat	
	dermal	LD50	> 2000 mg/kg	Rabbit	IUCLID

Section 12: Environmental information

12.1 Toxicity

CAS-Nr.	Bezeichnung					
	Aquatische Toxizität	Methode	Dosis	[h] | [d]	Spezies	Quelle
112-34-5	2-(2-Butoxyethoxy)ethanol (vgl. Butyldiglykol)					
	Akute Algentoxizität	ErC50	> 100 mg/l		Scenedesmus subspicatus	
	Akute Crustaceatoxizität	EC50	> 100 mg/l	48 h	Daphnia magna (Großer Wasserfloh)	
100-51-6	Benzylalkohol					
	Akute Fischtoxizität	LC50	460 mg/l	96 h	Pimephales promelas (Dickkopfelritze)	
	Akute Algentoxizität	ErC50	640 mg/l	96 h	Scenedesmus quadricauda	
141-43-5	2-Amino-ethanol (vgl. Ethanolamin)					
	Akute Fischtoxizität	LC50	150 mg/l	96 h	Onchorhynchus mykiss	IUCLID
	Akute Algentoxizität	ErC50	22 mg/l	72 h	Desmodesmus subspicatus.	
	Akute Crustaceatoxizität	EC50	65 mg/l	48 h	Daphnia magna (Großer Wasserfloh)	
15763-76-5	Natriumcumolsulfonat					
	Akute Fischtoxizität	LC50	>1000 mg/l	96 h		
	Akute Crustaceatoxizität	EC50	>1000 mg/l	48 h	Daphnia magna (Großer Wasserfloh)	
	Algentoxizität	NOEC	31 mg/l	4d		
6834-92-0	Dinatriummetasilikat					
	Akute Fischtoxizität	LC50	210 mg/l	96 h	Brachydanio rerio (Zebrabärbling)	
	Akute Crustaceatoxizität	EC50	1700 mg/l	48 h	Daphnia magna (Großer Wasserfloh)	
111-76-2	2-Butoxy-ethanol (vgl. Butylglykol)					
	Akute Fischtoxizität	LC50	1474 mg/l	96 h	Oncorhynchus mykiss (Regenbogenforelle)	
	Akute Algentoxizität	ErC50	911 mg/l	72 h	Pseudokirchneriella subcapitata	
	Akute Crustaceatoxizität	EC50	1550 mg/l	48 h	Daphnia magna (Großer Wasserfloh)	
68439-46-3	Alkylpolyethoxilat					

	Akute Fischtoxizität	LC50	1 – 10 mg/l	96 h	Brachydanio rerio (Zebrabärbling)	OECD 203
	Akute Bakterientoxizität		(> 1000 mg/l)			
1310-73-2	Natriumhydroxid					
	Akute Fischtoxizität	LC50	45,5 mg/l	96 h	Onchorhynchus mykiss	
5989-27-5	(R)-p-Mentha-1,8-dien					
	Akute Fischtoxizität	LC50	0,7 mg/l	96 h	Pimephales promelas	
	Akute Crustaceatoxizität	EC50	0,42 mg/l	48 h	Daphnia magna	

12.2 Persistence and degradability

The surfactants contained in this preparation meet the conditions of biodegradability as laid down in Regulation (EC) No 648/2004 on detergents.

CAS-Nr.	Bezeichnung			
	Methode	Wert	d	Quelle
	Bewertung			
112-34-5	2-(2-Butoxyethoxy)ethanol (vgl. Butyldiglykol)			
	OECD 301	> 60 %	28	
	Leicht biologisch abbaubar (nach OECD-Kriterien)			
100-51-6	Benzylalkohol			
	OECD 301	> 60 %	28	
	Leicht biologisch abbaubar (nach OECD-Kriterien)			
15763-765	Natriumcumolsulfonat			
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	> 60 %	28	
	Leicht biologisch abbaubar (nach OECD-Kriterien)			
111-76-2	2-Butoxy-ethanol (vgl. Butylglykol)			
	OECD 301	> 60 %	28	
	Leicht biologisch abbaubar (nach OECD-Kriterien)			
68439-46-3	Alkylpolyethoxilat			
	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	> 60 %	28	
	Leicht biologisch abbaubar (nach OECD-Kriterien)			

12.3 Bioaccumulation potential

No indication of bioaccumulation potential

Distribution coefficient n-octanol/water

CAS-Nr.	Bezeichnung	Log Pow
112-34-5	2-(2-Butoxyethoxy)ethanol (vgl. Butyldiglykol)	0,56
100-51-6	Benzylalkohol	1,05
141-43-5	2-Amino-ethanol (vgl. Ethanolamin)	-1,91
15763-76-5	Natriumcumolsulfonat	-1,1

111-76-2	2-Butoxy-ethanol (vgl. Butylglykol)	0,81
5989-27-5	(R)-p-Mentha-1,8-dien	4,23

12.4 Mobility in soil

The product has not been tested.

12.5 Results of the PBT and vPvB assessment

The substances in the mixture do not fulfil the PBT/vPvB criteria according to REACH, Annex XIII.

12.6 Other adverse effects

There is no information available.

Section 13: Notes on disposal

13.1 Waste treatment procedures

Recommendation

Disposal according to official regulations.

Handover to approved disposal company.

Waste code product

070601 Wastes from organic chemical processes; wastes from the MFSU of fats, lubricants, soaps, detergents, disinfectants and personal care products; aqueous washing liquids and mother liquors Classified as hazardous waste

Waste code uncleaned packaging

150102 Waste packaging, absorbent materials, wiping cloths, filter materials and protective clothing (n.e.c.); packaging (including separately collected municipal packaging waste); packaging made of plastic.

Disposal of uncleaned packaging and recommended cleaning agents

Non-contaminated and completely empty packaging can be recycled.

Section 14: Transport information

Land transport (ADR/RID)

14.1 UN number UN 2491

14.2 UN proper shipping name

ETHANOLAMINE, SOLUTION

14.3 Transport hazard class

8

14.4 Packaging group III

Danger label: 8
Classification code: C7

Limited quantity (LQ): 5 L
Transport category: 3
hazard number: 80
Tunnel restriction code: E

Other relevant information on land transport

@000000000006 E1

Inland waterway transport (ADN)

14.1 UN number UN 2491

14.2 UN proper shipping name

ETHANOLAMINE, SOLUTION

14.3 Transport hazard class

8

14.4 Packaging group III

Danger label: 8
Classification code: C7
Limited quantity (LQ): 5 L

Other relevant information on land transport

@000000000006 E1

Maritime transport (IMDG)

14.1 UN number UN 2491

14.2 UN proper shipping name

ETHANOLAMINE, SOLUTION

14.3 Transport hazard class

8

14.4 Packaging group III

Danger label: 8
special regulations: 223
Limited quantity (LQ): 5 L
EmS: F-A, S-B

Other relevant information on land transport

@000000000006 E1

Airtransport (ICAO)

14.1 UN number UN 2491

14.2 UN proper shipping name

ETHANOLAMINE, SOLUTION

14.3 Transport hazard class

8

14.4 Packaging group III

Danger label: 8
Special regulations: A3 A803
Limited Quantity (LQ) Passenger: 1 L
IATA packing instruction - Passenger: 852
IATA maximum quantity - Passenger: 5 L
IATA packing instruction - Cargo: 856
IATA maximum quantity - Cargo: 60 L

Other relevant information on land transport

@000000000006 E1
@000000000005: Y841

14.5 Special precautions for the user

There is no information available.

14.6 Environmental hazards

Hazardous to the environment: no

14.7 Carriage in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable.

Section 15: Legislation

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

EU legislation

Information on IE Directive 2010/75/EU (VOC): < 30

Additional notes

Regulation (EC) No 648/2004 on detergents

National regulations

Water hazard class: 1 - slightly hazardous to water

Sensitising substances (TRGS 907)

CAS-No.	EG-No.	Name	Commission
141-43-5	205-483-3	2-aminoethanol	Sh

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture have not been carried out.

Section 16: Other information

Abbreviations and acronyms

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
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Process categories according to ECHA guidance on information requirements and Chemical Safety Assessment, Chapter R.12:

PROC 1: Use in closed process.

PROC 8 (Transfer): Dilution of concentrates, use of pipe cleaners, manual dosing of textile detergents.

PROC 10 (Application by rolling or brushing): Processing methods without large-area Spray.

PROC 11 (Non-industrial spraying): Processing methods with large-area spraying (e.g. high-pressure process, foam gun).

PROC 19 (hand mixing with close contact): Hand cleaning and disinfection.

Wording of H and EUH phrases (number and full text)

H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters the respiratory system.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and severe eye damage.
H315	Causes skin irritation.
H317	May cause allergic skin reactions.
H318	Causes severe eye damage.
H319	Causes severe eye irritation.
H332	Harmful by inhalation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic organisms.
H410	Very toxic to aquatic organisms with long-term effects.
H412	Harmful to aquatic organisms, with long-term effects.
EUH208	Contains limonene. May cause allergic reactions.

Further Information

To the best of our knowledge, the information given in this safety data sheet corresponds to our Findings at time of going to press. The information is intended to provide you with clues for the safe. Do not handle the product mentioned in this safety data sheet during storage, processing, transport and disposal. The information is not transferable to other products. Insofar as the product is mixed, blended or processed with other materials or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise.