Gildewerk
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SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

ZAH-02050 - Activator Hair Soap

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

1.1 Product identifier

Product name : ZAH-02050 - Activator Hair Soap

This Safety Data Sheet relates to the material mentioned above by product name. The corresponding product is also available in compliance to RSPO rules. In this case the product name is followed by the suffix “MB”, which can be found in related order documents, e.g. invoices and/or delivery notes. All these documents also include our RSPO certification number: CU-RSPO SCC-819585

Chemical name : Proprietary mixture.

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

Identified uses
Consumer use of Fertilizers. - 01-2119488639-16 Consumer use of washing and cleaning products - 01-2119488639-16 Formulation of liquid Detergent. Formulation and (re)packing of substances and mixtures. Formulation of Fertilizers. - 01-2119488639-16 Industrial use of laundry products- 01-2119488639-16 Professional use of Fertilizers.- 01-2119488639-16 Professional use of laundry products- 01-2119488639-16 Consumer use Cosmetics. - 01-2119488639-16 Manufacture of cosmetics.- 01-2119488639-16

Uses advised against	Reason
Not applicable.	

1.3 Details of the supplier of the safety data sheet

Supplier

Gildewerk B.V.
A. Hofmanweg 41
2031 BH Haarlem
Nederland
Tel. +31 - (0)23 - 532 22 55
Fax +31 - (0)23 - 534 09 65
E-mail: holland@gildewerk.com

1.4 Emergency telephone number - FOR EMERGENCY USE ONLY

Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen
Tel +31 (0) 30 -2748888 (Nationaal Vergiftigingen Informatie Centrum

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Skin Irrit. 2, H315
Eye Dam. 1, H318
Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :

SECTION 2: Hazards identification

Signal word : Danger

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

Precautionary statements

Prevention : Wear protective gloves: > 8 hours (breakthrough time): butyl rubber , neoprene. Wear eye or face protection: Recommended: splash goggles , safety glasses with side-shields. Avoid release to the environment. Wash thoroughly after handling.

Response : Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients : Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Supplemental label elements : Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	REACH #: 01-2119488639-16 EC: 500-234-8 CAS: 68891-38-3	≥25 - ≤35	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412 **See Section 16 for the full text of the H statements declared above.**	Eye Dam. 1, H318: C ≥ 10% Eye Irrit. 2, H319: 5% ≤ C < 10%	[1]

Type

[1] Substance classified with a health or environmental hazard

Occupational exposure limits, if available, are listed in Section 8.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
pain
watering
redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Ingestion : Adverse symptoms may include the following:
stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products : No specific data.

5.3 Advice for firefighters

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

SECTION 6: Accidental release measures

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Europe No exposure limit value known. **Germany** No exposure limit value known. **Spain** No exposure limit value known. **Austria** No exposure limit value known.	

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	DNEL	Long term Oral	15 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	52 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	175 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	1650 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	2750 mg/kg bw/day	Workers	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	Fresh water	0,24 mg/l	Assessment Factors
	Marine water	0,024 mg/l	Assessment Factors
	Sewage Treatment Plant	10000 mg/l	Assessment Factors
	Fresh water sediment	5,45 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	0,545 mg/kg dwt	Equilibrium Partitioning
	Soil	0,946 mg/kg dwt	Equilibrium Partitioning

8.2 Exposure controls

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: splash goggles , safety glasses with side-shields

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): butyl rubber , neoprene

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: lab coat , overall

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: neoprene

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Remark : The penetration-time of the recommended gloves depends not only on the material. Also other factors may have influence on the penetration-time, as their thickness or the specific use or conditions (temperature). In any case, certificate materials (for example following EN 374) should be selected. Please ask your supplier, if the gloves are suitable for the intended use.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. [Clear. Liquid.]

Color : Colorless.

Odor : Characteristic.

Melting point/freezing point : Not available.

Boiling point/boiling range : >100°C

Flammability : Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts and moisture.

Lower and upper explosion limit : Not available.

Flash point : Open cup: >100°C [Product does not sustain combustion.]

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

pH : 9,5 to 11,4 [Conc. (% w/w): 100%]

Viscosity (Dynamic) : 100 to 200 cP (20 ºC)

Solubility(ies) :

Media	Result
cold water	Easily soluble
hot water	Easily soluble

Partition coefficient: n-octanol/ water : Not applicable.

Vapor pressure : Not available.

Relative density : 1,04

Density : 1,04 g/cm³ [22°C]

Vapor density : Not available.

Explosive properties : Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts and moisture.

Specific gravity : 1.04

Particle characteristics

Median particle size : Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts and moisture. Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts and moisture.

10.5 Incompatible materials : Non-reactive or compatible with the following materials: moisture.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result	Species	Dose
Proprietary mixture.	LD50 Oral	Rat	>2000 mg/kg
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	LD50 Dermal	Rat	>2000 mg/kg
	LD50 Oral	Rat	>2000 mg/kg

Conclusion/Summary : Gildewerk Data.

Acute toxicity estimates

Route	ATE value
Not available.	

Irritation/Corrosion

Conclusion/Summary

Skin : Irritating to skin.

Eyes : Based on test results, active ingredient of this product (active matter in water):
- at a concentration < 5% does not cause eye irritation or serious eye damage (Hazard category: not classified)
- at a concentration ≥ 5% and < 10% causes eye irritation (Hazard category: Eye irritant cat.2/H319)
- at a concentration ≥ 10% causes serious eye damage (Hazard category: Eye damage cat.1/H318)

Respiratory : Not available.

Sensitizer

Product/ingredient name	Route of exposure	Species	Result
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	skin	Guinea pig	Not sensitizing

Conclusion/Summary

Skin : Gildewerk Data.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative

Conclusion/Summary : Gildewerk

Data. **Carcinogenicity**

Conclusion/Summary : No known significant effects or critical hazards.

Reproductive toxicity

Conclusion/Summary : No known significant effects or critical hazards.

Teratogenicity

Conclusion/Summary : No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Specific target organ toxicity (repeated exposure)

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes skin irritation.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain
watering
redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Ingestion : Adverse symptoms may include the following:
stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

None known.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure	Test
Proprietary mixture.	Acute LC50 >1 mg/l	Fish	96 hours	OECD 203
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	Acute EC50 27,7 mg/l	Algae	72 hours	OECD 201 Alga, Growth Inhibition Test
	Acute EC50 7,4 mg/l	Daphnia	48 hours	OECD 202 *Daphnia* sp. Acute Immobilization Test and Reproduction Test
	Acute LC50 7,1 mg/l	Fish	96 hours	OECD 203 Fish, Acute Toxicity Test
	Chronic NOEC 0,95 mg/l	Algae	72 hours	OECD 201 Alga, Growth Inhibition Test

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Proprietary mixture. Alcohols, C12-14, ethoxylated, sulfates, sodium salts	- -	- -	Readily Readily

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

None known.

12.7 Other adverse effects

No known significant effects or critical hazards.

Other information : The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	- **ADR/RID Classification Code**		-	-

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Other EU regulations

Statement regarding Biodegradability Reports for Surfactants : The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

Germany

Storage class (TRGS 510) : 10

Hazard class for water : 1

National Inventory List :

This refers to country inventory status or Gildewerk notifications to specific country inventories. Some countries may have additional importation requirements.

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Eurasian Economic Union : **Russian Federation inventory**: All components are listed or exempted.

Japan : **Japan inventory (CSCL)**: All components are listed or exempted.
Japan inventory (ISHL): All components are listed or exempted.

New Zealand : All components are listed or exempted.

Philippines : All components are listed or exempted.

Republic of Korea : All components are listed or exempted.

Taiwan : All components are listed or exempted.

United States : All components are active or exempted.

15.2 Chemical Safety Assessment : Complete.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	Calculation method Calculation method Calculation method

Full text of abbreviated H statements

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

Full text of classifications [CLP/GHS]

Aquatic Chronic 3 Eye Dam. 1 Skin Irrit. 2	AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN CORROSION/IRRITATION - Category 2

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Form : *Europe (EU) SDS REACH 2020/878*

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Annex to the extended Safety Data Sheet (eSDS)

Professional

Identification of the substance or mixture

Product definition : Mixture

Product name ZAH-02050

Section 1 - Title

Short title of the exposure scenario : Alcohols, C12-14, ethoxylated, sulfates, sodium salts- ES 5

List of use descriptors : **Identified use name:** Professional use of laundry products- 01-2119488639-16
Process Category: PROC01, PROC08a, PROC10, PROC11
Substance supplied to that use in form of: In a mixture
Sector of end use: SU03, SU22
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC08a
Market sector by type of chemical product: PC35
Article category related to subsequent service life: Not applicable.

Environmental contributing scenarios :

Health Contributing scenarios :

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:

Amounts used : 10000 Tonnes/year

Frequency and duration of use : 365 days per year

Environment factors not influenced by risk management : River flow rate: 18000 m³/d (standard town).

Other conditions affecting environmental exposure : Release fraction to air from process (initial release prior to RMM) 0%
Release fraction to wastewater from process (initial release prior to RMM)100%
Release to soil from process: 0%
Fraction used at main source: 0.075%
Fraction of regional tonnage used locally 10%

Contributing scenario controlling worker exposure for 2:

Frequency and duration of use/exposure : Frequency: 5 workdays/week.

Laundry aids
Semi-automated process. (e.g. Semi-automatic application of floor care and maintenance products) PROC 1: > 4 h/d
Manual PROC 10: 1-4 h /d

Conditioners.
Semi-automated process. (e.g. Semi-automatic application of floor care and maintenance products) PROC 1 : >4h / d

Laundry aids gas
PROC 1: > 4 h/d
PROC 8a: 1-4 h/d

Laundry aids None gas
Semi-automated process. (e.g. Semi-automatic application of floor care and maintenance products):
PROC 1: >4 h/d
PROC 8a: 1-4 h/d
Manual:

PROC 4: >4 h/d

STAIN REMOVERS
PROC 11: 15 min/day- 1 h/d
PROC 10: 1-4 h/d

Other conditions affecting workers exposure : Indoor

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection : Personal protection: gloves (80%)

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1:

Exposure assessment (environment): : EASY TRA v2.0

Exposure estimation and reference to its source : For further information please contact with holland@gildewerk.com

Exposure estimation and reference to its source - Workers: 2:

Exposure assessment (human): : EASY TRA v2.0

Exposure estimation and reference to its source : For further information please contact with holland@gildewerk.com

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment : Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. [DSU2]
Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. [DSU3]If scaling reveals a condition of unsafe use (i.e. , RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. [DSU8]

Health : Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. [G22]
Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. [G23]
Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. [DSU1]

Additional good practice advice beyond the REACH CSA

Environment : Not available.

Health : Not available.

Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mixture

Product name ZAH-02050

Section 1 - Title

Short title of the exposure scenario : Alcohols, C12-14, ethoxylated, sulfates, sodium salts - ES 2

List of use descriptors : **Identified use name:** Formulation of liquid Detergent. Formulation and (re)packing of substances and mixtures. Formulation of Fertilizers. - 01-2119488639-16
Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC08b, PROC09, PROC14, PROC15
Substance supplied to that use in form of: In a mixture
Sector of end use: SU03, SU10, SU22
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC02
Market sector by type of chemical product: Not applicable.
Article category related to subsequent service life: Not applicable.

Environmental contributing scenarios :

Health Contributing scenarios :

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:

Product characteristics : liquid

Amounts used : 10000 Tonnes/year

Frequency and duration of use : 220 days per year

Environment factors not influenced by risk management : River flow rate: 18000 m³/d (standard town).

Other conditions affecting environmental exposure : Release fraction to air from process (initial release prior to RMM) 0.020%
Release fraction to wastewater from process (initial release prior to RMM) 0.010% (Freshwater)
Release fraction to soil from process (initial release prior to RMM) 0%
Fraction used at main source: 36.74%
Fraction of regional tonnage used locally 100%

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil : Local freshwater dilution factor :10
Local marine water dilution factor :100

Contributing scenario controlling worker exposure for 2:

Product characteristics : liquid

Frequency and duration of use/exposure : 4 h (half shift).

Other conditions affecting workers exposure : Indoor

Conditions and measures related to personal protection, hygiene and health evaluation

Section 3 - Exposure estimation and reference to its source

Website:	:	Not applicable.

Exposure estimation and reference to its source - Environment: 1:

Exposure assessment (environment):	:	EASY TRA v2.0
Exposure estimation and reference to its source	:	For further information please contact with holland@gildewerk.com

Exposure estimation and reference to its source - Workers: 2:

Exposure assessment (human):	:	EASY TRA v2.0
Exposure estimation and reference to its source	:	For further information please contact with holland@gildewerk.com

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	:	Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. [DSU2] Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. [DSU3]If scaling reveals a condition of unsafe use (i.e. , RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. [DSU8]
Health	:	Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. [G22] Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. [G23] Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. [DSU1]

Additional good practice advice beyond the REACH CSA

Environment	:	Not available.
Health	:	Not available.

Annex to the extended Safety Data Sheet (eSDS)

Professional

Identification of the substance or mixture

Product definition : Mixture

Product name : ZAH-02050

Section 1 - Title

Short title of the exposure scenario : Alcohols, C12-14, ethoxylated, sulfates, sodium salts - ES 3

List of use descriptors :
Identified use name: Industrial use of laundry products- 01-2119488639-16
Process Category: PROC02
Substance supplied to that use in form of: In a mixture
Sector of end use: SU03, SU21, SU22
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC04
Market sector by type of chemical product: PC35
Article category related to subsequent service life: Not applicable.

Environmental contributing scenarios :

Health Contributing scenarios :

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:

Amounts used : 10000 Tonnes/year

Frequency and duration of use : 220 days per year

Environment factors not influenced by risk management : River flow rate: 18000 m³/d (standard town).

Other conditions affecting environmental exposure :
Release to air from process: 0%
Release fraction to wastewater from process (initial release prior to RMM) 100% (Freshwater)
Release fraction to wastewater from process (initial release prior to RMM) 0% (Marine water)
Release fraction to soil from process (initial release prior to RMM) 0%
Fraction used at main source: 4.4%
Fraction of regional tonnage used locally 100%

Contributing scenario controlling worker exposure for 2:

Frequency and duration of use/exposure : Use duration: 480 min
Frequency :5 workdays/week.

Other conditions affecting workers exposure : Indoor

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection : Personal protective equipment gloves: 80%

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1:

Exposure assessment (environment):	:	EASY TRA v2.0
Exposure estimation and reference to its source	:	For further information please contact with holland@gildewerk.com

Exposure estimation and reference to its source - Workers: 2:

Exposure assessment (human):	:	EASY TRA v2.0
Exposure estimation and reference to its source	:	For further information please contact with holland@gildewerk.com

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	:	Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. [DSU2] Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. [DSU3]If scaling reveals a condition of unsafe use (i.e. , RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. [DSU8]
Health	:	Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. [G22] Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. [G23] Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. [DSU1]

Additional good practice advice beyond the REACH CSA

Environment	:	Not available.
Health	:	Not available.

Annex to the extended Safety Data Sheet (eSDS)

Professional

Identification of the substance or mixture

Product definition : Mixture

Product name : ZAH-02050

Section 1 - Title

Short title of the exposure scenario : Alcohols, C12-14, ethoxylated, sulfates, sodium salts- ES 4

List of use descriptors : **Identified use name:** Professional use of Fertilizers.- 01-2119488639-16
Process Category: PROC02, PROC08a, PROC08b, PROC13
Substance supplied to that use in form of: In a mixture
Sector of end use: SU03, SU22
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC08b, ERC08e, ERC09b
Market sector by type of chemical product: PC12
Article category related to subsequent service life: Not applicable.

Environmental contributing scenarios :

Health Contributing scenarios :

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:

Amounts used : 10000 Tonnes/year

Frequency and duration of use : 365 days per year

Environment factors not influenced by risk management : River flow rate: 18000 m³/d (standard town).

Other conditions affecting environmental exposure : (Open Process, Indoor)
Release to air from process: 0.1%
Release fraction to wastewater from process (initial release prior to RMM) 2%
Release to soil from process: 0%
Fraction used at main source: 0.2%
Fraction of regional tonnage used locally 10%

(Closed system, Outdoor)
Release to air from process: 5%
Release fraction to wastewater from process (initial release prior to RMM) 5%
Release fraction to soil from process (initial release prior to RMM) 5%
Fraction used at main source: 0.2%
Fraction of regional tonnage used locally 10%

(Open Process, Outdoor)
Release fraction to air from process (initial release prior to RMM) 0.1%
Release fraction to wastewater from process (initial release prior to RMM) 2%
Release fraction to soil from process (initial release prior to RMM) 1%
Fraction used at main source: 0.2%
Fraction of regional tonnage used locally 10%

Conditions and measures related to sewage treatment plant : Municipal Sewage Treatment Plant: 2000000 L/ day(s)

Contributing scenario controlling worker exposure for 2:

Concentration of substance in mixture or article	:	Open Process, Outdoor: 30%
Frequency and duration of use/exposure	:	Use duration (h/d): >4 Frequency :5 workdays/week.
Other conditions affecting workers exposure	:	Indoor

Conditions and measures related to personal protection, hygiene and health evaluation

Section 3 - Exposure estimation and reference to its source

Website:	:	Not applicable.

Exposure estimation and reference to its source - Environment: 1:

Exposure assessment (environment):	:	EASY TRA v2.0
Exposure estimation and reference to its source	:	For further information please contact with holland@gildewerk.com

Exposure estimation and reference to its source - Workers: 2:

Exposure assessment (human):	:	EASY TRA v2.0
Exposure estimation and reference to its source	:	For further information please contact with holland@gildewerk.com

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	:	Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. [DSU2] Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. [DSU3]If scaling reveals a condition of unsafe use (i.e. , RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. [DSU8]
Health	:	Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. [G22] Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. [G23] Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. [DSU1]

Additional good practice advice beyond the REACH CSA

Environment	:	Not available.
Health	:	Not available.

Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mixture

Product name : ZAH-02050

Section 1 - Title

Short title of the exposure scenario : Alcohols, C12-14, ethoxylated, sulfates, sodium salts- ES 1

List of use descriptors : **Identified use name:** Manufacture of cosmetics.- 01-2119488639-16
Process Category: PROC01, PROC02, PROC03, PROC05, PROC08a, PROC08b, PROC09, PROC14, PROC15
Substance supplied to that use in form of: In a mixture
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC02
Market sector by type of chemical product: PC39

Environmental contributing scenarios :

Health Contributing scenarios :

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:

Product characteristics	:	liquid
Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 100%
Amounts used	:	Annual site tonnage:1.00E4 Tonnes/year Daily amount per site :1.67E4 kg/d
Frequency and duration of use	:	220 days per year
Other conditions affecting environmental exposure	:	Local freshwater dilution factor :10 Local marine water dilution factor :100
Conditions and measures related to sewage treatment plant	:	Sewage Treatment Plant : Yes. River flow rate: 18000 m³/d Discharging : 2000000 L/day
Conditions and measures related to external recovery of waste	:	External recovery and recycling of waste should comply with applicable local and/or national regulations.

Contributing scenario controlling worker exposure for 2:

Product characteristics	:	liquid
Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 100%
Physical state	:	liquid
Frequency and duration of use/exposure	:	Use duration (h/d): >4 Frequency :5 workdays/week.
Human factors not influenced by risk management	:	Covers skin contact area up to 240 cm² (PROC 1, PROC 3, PROC 14) Covers skin contact area up to 480 cm² (PROC 2, PROC 5, PROC 9, PROC 14) Covers skin contact area up to 960 cm² (PROC 8a, PROC 8b)
Other conditions affecting workers exposure	:	Indoor
Technical conditions and measures at process level (source) to prevent release	:	Assumes a good basic standard of occupational hygiene is implemented

Technical conditions and measures to control dispersion from source towards the worker	:	Local exhaust ventilation : No.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene	:	Assumes a good basic standard of occupational hygiene is implemented
Personal protection	:	See Section 8 of the safety data sheet (personal protective equipment).

Section 3 - Exposure estimation and reference to its source

Website:	:	Not applicable.

Exposure estimation and reference to its source - Environment: 1:

Exposure assessment (environment):	:	COLIPA SPERC
Exposure estimation and reference to its source	:	For further information please contact with holland@gildewerk.com

Exposure estimation and reference to its source - Workers: 2:

Exposure assessment (human):	:	COLIPA SPERC
Exposure estimation and reference to its source	:	For further information please contact with holland@gildewerk.com

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	:	Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.
Health	:	Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Additional good practice advice beyond the REACH CSA

Environment	:	Not available.
Health	:	Not available.

Annex to the extended Safety Data Sheet (eSDS)

Consumer

Identification of the substance or mixture

Product definition : Mixture

Product name : ZAH-02050

Section 1 - Title

Short title of the exposure scenario : Alcohols, C12-14, ethoxylated, sulfates, sodium salts- ES 7

List of use descriptors : **Identified use name:** Consumer use of washing and cleaning products - 01-2119488639-16
Substance supplied to that use in form of: In a mixture
Sector of end use: SU03, SU21, SU22
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC08a
Market sector by type of chemical product: PC35
Article category related to subsequent service life: Not applicable.

Environmental contributing scenarios :

Health Contributing scenarios :

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:

Amounts used : 10000 Tonnes/year

Frequency and duration of use : 365 days per year

Environment factors not influenced by risk management : River flow rate: 18000 m³/d (standard town).

Other conditions affecting environmental exposure : Release to air from process: 0%
Release fraction to wastewater from process (initial release prior to RMM) 100% (Freshwater)
Release fraction to wastewater from process (initial release prior to RMM) 0% (Marine water)
Release fraction to soil from process (initial release prior to RMM) 0%
Fraction used at main source: 0.075%
Fraction of regional tonnage used locally 10%

Contributing scenario controlling consumer exposure for 2:

Product characteristics : Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)

Amounts used : 10% by weight (Dermal); 10 % by weight (Inhalation)

Frequency and duration of use/exposure : Surface cleaning: 0.330 hour
Hand dishwashing liquids : 1 hour
Laundry additives : 1 hour
Laundry regular : 1 hour
Machine dishwashing (powder, liquid, tablet) for consumer use : 1 hour

Human factors not influenced by risk management : Skin contact: Hands

Other given operational conditions affecting consumers exposure : Room volume: 20 m³

Conditions and measures related to personal protection and hygiene

Section 3 - Exposure estimation and reference to its source

Website:	:	Not applicable.

Exposure estimation and reference to its source - Environment: 1:

Exposure assessment (environment):	:	EASY TRA v2.0
Exposure estimation and reference to its source	:	For further information please contact with holland@gildewerk.com

Exposure estimation and reference to its source - Consumers: 2:

Exposure assessment (human):	:	EASY TRA v2.0
Exposure estimation and reference to its source	:	For further information please contact with holland@gildewerk.com

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	:	Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. [DSU2] Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. [DSU3]If scaling reveals a condition of unsafe use (i.e. , RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. [DSU8]
Health	:	Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. [G22] Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. [G23] Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. [DSU1]

Additional good practice advice beyond the REACH CSA

Environment	:	Not available.
Health	:	Not available.

Annex to the extended Safety Data Sheet (eSDS)

Consumer

Identification of the substance or mixture

Product definition : Mixture

Product name : ZAH-02050

Section 1 - Title

Short title of the exposure scenario : Alcohols, C12-14, ethoxylated, sulfates, sodium salts - ES 6

List of use descriptors : **Identified use name:** Consumer use of Fertilizers. - 01-2119488639-16

Substance supplied to that use in form of: In a mixture
Sector of end use: SU03, SU21
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC08b, ERC08e
Market sector by type of chemical product: PC12
Article category related to subsequent service life: Not applicable.

Environmental contributing scenarios :

Health Contributing scenarios :

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:

Amounts used : 10000 Tonnes/year

Frequency and duration of use : 365 days per year

Environment factors not influenced by risk management : River flow rate: 18000 m³/d (standard town).

Other conditions affecting environmental exposure : Release to air from process: 0.1%
Release to waste water from process: 2%
Release fraction to soil from process (initial release prior to RMM) 0% (Indoor); 1% (Outdoor)
Fraction used at main source: 0.2%
Fraction of regional tonnage used locally 10%

Conditions and measures related to sewage treatment plant : Municipal Sewage Treatment Plant: 2000000 L/day(s)

Contributing scenario controlling consumer exposure for 2:

Product characteristics : Lawn and garden preparations

Amounts used : 20% by weight (Dermal); 20 % by weight (Oral)

Frequency and duration of use/exposure : 1 application per day

Human factors not influenced by risk management : Skin contact: Hands

Conditions and measures related to personal protection and hygiene

Section 3 - Exposure estimation and reference to its source

Website:	:	Not applicable.

Exposure estimation and reference to its source - Environment: 1:

Exposure assessment (environment):	:	EASY TRA v2.0
Exposure estimation and reference to its source	:	For further information please contact with holland@gildewerk.com

Exposure estimation and reference to its source - Consumers: 2:

Exposure assessment (human):	:	EASY TRA v2.0
Exposure estimation and reference to its source	:	For further information please contact with holland@gildewerk.com

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	:	Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. [DSU2] Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. [DSU3]If scaling reveals a condition of unsafe use (i.e. , RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. [DSU8]
Health	:	Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. [G22] Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. [G23] Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. [DSU1]

Additional good practice advice beyond the REACH CSA

Environment	:	Not available.
Health	:	Not available.

Annex to the extended Safety Data Sheet (eSDS)

Consumer

Identification of the substance or mixture

Product definition : Mixture

Product name : ZAH-02050

Section 1 - Title

Short title of the exposure scenario : Alcohols, C12-14, ethoxylated, sulfates, sodium salts- ES 8

List of use descriptors : **Identified use name:** Consumer use Cosmetics. - 01-2119488639-16

Substance supplied to that use in form of: In a mixture
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC08a
Market sector by type of chemical product: PC39

Environmental contributing scenarios :

Health Contributing scenarios :

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:

Product characteristics : Weight fraction of substance in the article:25%

Amounts used : Tonnes/year :1.00E4
Daily amount per site : 2.055 kg/d

Environment factors not influenced by risk management : Local freshwater dilution factor:10
Local marine water dilution factor :100

Other conditions affecting environmental exposure : Release to soil from process : 0%

Conditions and measures related to sewage treatment plant : Sewage Treatment Plant : Yes.
River flow rate: 18000 m³/d
Discharging :2000000 L/ day(s)

Conditions and measures related to external treatment of waste for disposal : External recovery and recycling of waste should comply with applicable local and/or national regulations.

Contributing scenario controlling consumer exposure for 2:

Physical state : liquid

Amounts used : Inhalation :10 g
Dermal :10 g

Frequency and duration of use/exposure : Frequency and duration of use : 2 uses per day.720 minutes

Human factors not influenced by risk management : Covers skin contact area up to 1.57E4 cm²

Other given operational conditions affecting consumers exposure : Inhalation Room volume :20 m³ . Ventilation size: 1 L/h

Conditions and measures related to personal protection and hygiene

Section 3 - Exposure estimation and reference to its source

Website:	:	Not applicable.

Exposure estimation and reference to its source - Environment: 1:

Exposure assessment (environment):	:	ConsExpo
Exposure estimation and reference to its source	:	For further information please contact with holland@gildewerk.com

Exposure estimation and reference to its source - Consumers: 2:

Exposure assessment (human):	:	ConsExpo
Exposure estimation and reference to its source	:	For further information please contact with holland@gildewerk.com

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	:	Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.
Health	:	Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Additional good practice advice beyond the REACH CSA

Environment	:	Not available.
Health	:	Not available.