ELOPERS CONSPM 400 (coco-glucoside & glyceryl oleate)



Safety Data Sheet (SDS)

According to Regulation (EC) No 1907/2006 (REACH), Annex II(COMMISSION REGULATION (EU) No 2015/830)

ELOPERS CONSPM400V2

Date of issue: 2017-12

Revision date: 2019-01-10

Version: R0003.0004

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name/designation : ELOPERS CONSPM400V2

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

1.2.1. Relevant identified uses

- Cleaning/washing agents, Surface-active agents

1.2.2. Uses advised against

- Not available

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier	: LG Household & Health Care Ltd.
Address	: LG Gwanghwamun Building, 58, Saemunan-ro, Jongno-gu, Seoul, Republic of Korea
Telephone	: +82-505-305-7007
Email	: chemicals@lgcare.com

1.4. Emergency telephone number

Telephone number : +49-6196-887-170

EU-wide emergency number : 112

See section 16.6 for the list of telephone number of National Helpdesks in the European Economic Area.

SECTION 2: HAZARD IDENTIFICATION

2.1. Classification of the substance/mixture

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

- Skin corrosion/irritation : Category2, H315
- Serious eye damage/irritation : Category1, H318

2.2. Label elements

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

: Danger

* Hazard Pictogram(s)



* Signal word

* Hazard statement(s)

- H315 Causes skin irritation

- H318 Causes serious eye damage

* Precautionary statement(s)

1) Prevention

- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

2) Response

- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- 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 or doctor/physician.

- P332+P313 If skin irritation occurs: Get medical advice/attention.

- P362 Take off contaminated clothing and wash before reuse.

3) Storage

- Not applicable

4) Disposal

- Not applicable

2.3. Other hazards

- Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

- Not applicable

3.2. Mixtures

Name	EC No.	CAS No.	REACH registration No.	% [weight]	Classification [1272/2008/EC]	Specific concentration limit
Water	231-791-2	7732-18-5	-	30 - 40	Not classified	-
Glyceryl Oleate	294-571-5	91744-09-1	-	20 - 40	Not classified	-
Coco Glucoside	500-220-1 / -	68515-73-1 / 110615-47-9	01- 2119488530- 36-0003 / 01- 2119489418- 23-0002	20 - 40	Eye Dam. 1, H318 Skin Irrit. 2, H315	Eye Dam. 1: >12.0 - <= 30.0 % Skin Irrit. 2: >30.0 %
Trisodiumcitrate	200-675-3	68-04-2	-	1 - 10	Eye Irrit. 2, H319 STOT SE 3, H335	-
Citric Acid	201-069-1	77-92-9	-	1 - 10	Not classified	-

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General

- No general information.

Inhalation

- When exposed to large amounts of steam and mist, move to fresh air.
- Take specific treatment if needed.

Skin contact

- Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Wash contaminated clothing thoroughly before re-using.
- Go to the hospital immediately if symptoms(flare, irritate) occur.
- Wash thoroughly after handling.

Eye contact

- Do not rub your eyes.
- Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor/physician.
- Get medical attention immediately.
- Remove contact lenses if worn.

Ingestion

- Please be advised by doctor whether induction of vomit is demanded or not.
- Rinse your mouth with water immediately.

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

- Not available

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

- Notify medical personnel of contaminated situations and have them take appropriate protective measures.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

- Dry chemical, carbon dioxide, regular foam extinguishing agent, spray

Unsuitable extinguishing media

- Avoid use of water jet for extinguishing

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

- Not available

5.3. Advice for firefighters

- Notify your local firestation and inform the location of the fire and characteristics hazard.
- Avoid inhalation of materials or combustion by-products.
- Do not access if the tank on fire.
- Use appropriate extinguishing measure suitable for surrounding fire.
- Wear appropriate protective equipment.
- Keep containers cool with water spray.
- Use fire fighting procedures suitable for surrounding area.
- Vapor or gas is burned at distant ignition sources can be spread quickly.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment: Wear proper protective equipment.
- Emergency procedures: Not applicable
- If required, notify relevant authorities according to all applicable regulations.

6.1.2. For emergency responders

- Wear proper personal protective apparatus as indicated in Section 8 and avoid skin contact and inhalation.
- Ventilate closed spaces before entering.
- Must work against the wind, let the upwind people to evacuate.
- Move container to safe area from the leak area.
- Do not direct water at spill or source of leak.
- Avoid skin contact and inhalation.

6.2. Environmental precautions

- Prevent runoff and contact with waterways, drains or sewers.
- If large amounts have been spilled, inform the relevant authorities.
- Avoid dispersal of spilt material and runoff and contact with waterways, drains and sewers. If large spills, advise emergency services.

6.3. Methods and material for containment and cleaning up

6.3.1. For containment

- Clear spills immediately
- Clean up all spills immediately.
- Control personal contact by using protective equipment.
- Prevent, by any means available, spillage from entering drains or water course.

6.3.2. For cleaning up

- Large spill : Stay upwind and keep out of low areas. Dike for later disposal.
- Notification to central government, local government. When emissions at least of the standard amount
- Dispose of waste in accordance with local regulation.
- Appropriate container for disposal of spilled material collected.
- Small leak: sand or other non-combustible material, please let use absorption.
- Wipe off the solvent.
- Dike for later disposal.

6.3.3. Other information

- Slippery when spilt.

6.4. Reference to other sections

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for information on disposal.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

- Since emptied containers retain product residue(vapor, liquid, solid) follow all MSDS and label warnings even after container is emptied.
- Avoid contact with incompatible materials.
- Get the manual before use.
- Do not handle until all safety precautions have been read and understood.
- Do not inhale the steam prolonged or repeated.

7.2. Conditions for safe storage, including any incompatibilities

- Do not use damaged containers.
- Do not apply any physical shock to container.
- Avoid direct sunlight.
- Keep in the original container.
- Keep sealed when not in use.
- Collected them in sealed containers.

7.3. Specific end use(s)

- See Section 1 for information on 1.2 Relevant identified uses.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. Occupational exposure limits

European Union (EU) Commission Directive 2006/15/EC (IOELVs)

- Not available

European Union (EU) Commission Directive 2006/15/EC (IOELVs) - Skin

- Not available

8.1.2. Recommended Monitoring Procedures

- Personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

8.1.3. DNEL/PNEC - Values

Components with PNEC

- [D-Glucose, decyl octyl ethers, oligomeric] : freshwater: 0.1 mg/L
- [D-Glucose, decyl octyl ethers, oligomeric] : marine water: 0.01 mg/L
- [D-Glucose, decyl octyl ethers, oligomeric] : intermittent release: 0.27 mg/L
- [D-Glucose, decyl octyl ethers, oligomeric] : sediment (freshwater): 0.487 mg/kg
- [D-Glucose, decyl octyl ethers, oligomeric] : sediment (marine water): 0.048 mg/kg
- [D-Glucose, decyl octyl ethers, oligomeric] : soil: 0.654 mg/kg
- [D-Glucose, decyl octyl ethers, oligomeric] : STP: 560 mg/L
- [D-Glucose, decyl octyl ethers, oligomeric] : oral: 111.11 mg/kg
- [D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : freshwater: 0.1 mg/L
- [D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : marine water: 0.005 mg/L
- [D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : intermittent release: 0.0295 mg/L
- [D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : sediment (freshwater): 0.487 mg/kg
- [D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : sediment (marine water): 0.048 mg/kg

- [D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : soil: 0.654 mg/kg

- [D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : STP: 5000 mg/L

Components with DNEL

- [D-Glucose, decyl octyl ethers, oligomeric] : worker: Long-term systemic effects, dermal: 595000 mg/kg
- [D-Glucose, decyl octyl ethers, oligomeric] : worker: Long-term systemic effects, inhalation: 420 mg/m³
- [D-Glucose, decyl octyl ethers, oligomeric] : general population: Long-term systemic effects, dermal: 357000 mg/kg
- [D-Glucose, decyl octyl ethers, oligomeric] : general population: Long-term systemic effects, inhalation: 124 mg/m³
- [D-Glucose, decyl octyl ethers, oligomeric] : general population: Long-term systemic effects, oral: 35.7 mg/kg
- [D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : worker: Long-term systemic effects, dermal: 595000 mg/kg
- [D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : worker: Long-term systemic effects, inhalation: 420 mg/m³
- [D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : general population: Long-term systemic effects, dermal: 357000 mg/kg
- [D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : general population: Long-term systemic effects, inhalation: 124 mg/m³
- [D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : general population: Long-term systemic effects, oral: 35.7 mg/kg

8.2. Exposure controls

8.2.1. Appropriate engineering controls

- Business owner is recommended to maintain below recommended exposure limits for the working place with general exhaust of gas/vapour/mist/fume.

8.2.2. Individual protection measures, such as personal protective equipment

Hand protection

- Wear appropriate glove.

Eye protection

- Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield.
- Provide an emergency eye wash station and quick drench shower in the immediate work area.

Respiratory Protection

- Under conditions of frequent use or heavy exposure, Respiratory protection may be needed.
- Respiratory protection is ranked in order from minimum to maximum.
- Consider warning properties before use.
- Any chemical cartridge respirator with organic vapor cartridge(s).
- Any chemical cartridge respirator with a full facepiece and organic vaporcartridge(s).
- Any air-purifying respirator with a full facepiece and an organic vapor canister.

- For Unknown Concentration or Immediately Dangerous to Life or Health : Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.

Skin protection

- Wear appropriate clothing.

8.2.3 Environmental exposure controls

- Do not let product enter drains. For ecological information refer to section 12.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties				
Appearance(State)	Paste			
Appearance(Color)	Yellowish			
Odor	Characteristic odor			
Odor threshold	Not available			
pН	4 - 5 (Direct)			
Melting point/Freezing point	Not available			
Initial boiling point and boiling range	Not available			
Flash point	Not available			
Evaporation rate	Not available			
Flammability(solid, gas)	Not available			
Upper/Lower Flammability or explosive limits	Not available			
Vapour pressure	Not available			
Vapour density	Not available			
Relative density	Not available			
Solubility	Dispersible			

Partition coefficient of n-octanol/water	Not available
Autoignition temperature	Not available
Decomposition temperature	Not available
Viscosity	2,500 - 15,000 cps at 25 ℃
Explosive properties	Not available
Oxidising properties	Not available

9.2. Other information

- Not available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

- Not available

10.2. Chemical Stability

- This material is stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

- Hazardous Polymerization will not occur.

10.4. Conditions to avoid

- Avoid contact with incompatible materials and condition.
- Avoid : Accumulation of electrostatic charges, Heating, Flames and hot surfaces

10.5. Incompatible materials

- Not available

10.6. Hazardous decomposition products

- May emit flammable vapour if involved in fire.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Acute toxicity

- Oral
 - Product (ATEmix) : >5000mg/kg
 - [D-Glucose, decyl octyl ethers, oligomeric] : LD50 >2000 mg/kg Rat (OECD Guideline 423)
 - [Coco Glucoside] : LD50 >2000 mg/kg Rat (OECD Guideline 423)

- Dermal

- Product (ATEmix) : >5000mg/kg
- [D-Glucose, decyl octyl ethers, oligomeric] : LD50 >2000 mg/kg Rabbit (OECD Guideline 402)
- [Coco Glucoside] : LD50 >2000 mg/kg Rat (OECD Guideline 402)

- Inhalation

- Not available

11.2. Skin corrosion/irritation

- [D-Glucose, decyl octyl ethers, oligomeric] : Skin corrosion/irritation rabbit: not irritating (OECD Guideline 404)
- [Coco Glucoside] : Skin corrosion/irritation rabbit: irritanting (OECD Guideline 404)

11.3. Serious eye damage/irritation

- [D-Glucose, decyl octyl ethers, oligomeric] : Serious eye damage/irritation rabbit: highly irritating (OECD Guideline 405)
- [Coco Glucoside] : Serious eye damage/irritation rabbit: highly irritating (OECD Guideline 405)

11.4. Respiratory sensitization

- Not available

11.5. Skin sensitization

- [D-Glucose, decyl octyl ethers, oligomeric] : Skin sensitisation guinea pig: not sensitising (OECD Guideline 406)

- [Coco Glucoside] : Skin sensitisation guinea pig: not sensitising (OECD Guideline 406)

11.6. Germ cell mutagenicity

- [D-Glucose, decyl octyl ethers, oligomeric] : Bacterial Reverse Mutation Assay(OECD Guideline 471): negative, In vitro Mammalian Cell Gene Mutation Test(OECD Guideline 476): negative (with and without metabolic activation), In vitro Mammalian Chromosome Aberration Test(OECD Guideline 473): negative

- [Coco Glucoside] : Bacterial Reverse Mutation Assay(OECD Guideline 471): negative, In vitro Mammalian Cell Gene Mutation Test(OECD Guideline 476): negative (with and without metabolic activation), In vitro Mammalian Chromosome Aberration Test(OECD Guideline 473): negative, In vivo Mammalian Erythrocyte Micronucleus Test(OECD Guideline 474): negative

11.7. Carcinogenicity

- IARC

- Not available

- OSHA

- Not available

- ACGIH

- Not available

- NTP

- Not available

- EU CLP

- Not available

11.8. Reproductive toxicity

- [D-Glucose, decyl octyl ethers, oligomeric]: A one-generation screening assay revealed a NOAEL for reprotoxicity of 1000 mg/kg/day. (OECD Guideline 421), A developmental toxicity study revealed a NOAEL of 1000 mg/kg/day. (OECD Guideline 414)
- [Coco Glucoside]: A one-generation screening assay revealed a NOAEL for reprotoxicity of 1000 mg/kg/day. (OECD Guideline 421), A developmental toxicity study revealed a NOAEL of 1000 mg/kg/day. (OECD Guideline 414)

11.9. Specific target organ toxicity(single exposure):

- Not available

11.10. Specific target organ toxicity(repeated exposure):

- [D-Glucose, decyl octyl ethers, oligomeric] : An oral subchronic repeated dose toxicity study revealed a NOAEL of 100 mg/kg/day. (EU Method B.26)

- [Coco Glucoside] : An oral subchronic repeated dose toxicity study revealed a NOAEL of 1000 mg/kg/day. (EU Method B.26)

11.11. Aspiration hazard

- Not available

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Fish

- [D-Glucose, decyl octyl ethers, oligomeric] : LC50 (96 h): 100.81 mg/L Brachydanio rerio (ISO 7346/1-3), NOEC(28 d): 1.8 mg a.i./L (based on: mortality) Brachydanio rerio (OECD Guideline 204)

- [Coco Glucoside] : LC50 (96 h): 5.9 mg/L Brachydanio rerio (Annex of 92/69/EWG), NOEC(28 d): 1.8 mg a.i./L (based on: mortality) Brachydanio rerio (OECD Guideline 204)

12.1.2. Invertebrate

- [D-Glucose, decyl octyl ethers, oligomeric] : EC50 (48 h): >100 mg/L(based on: mobility) Daphnia magna (OECD Guideline 202), NOEC (21 d): 1 mg/L(based on: mobility) Daphnia magna (OECD Guideline 202 Part II)

- [Coco Glucoside] : EC50 (48 h): 14 mg/L(based on: mobility) Daphnia magna (Annex of 92/69/EWG), NOEC (21 d): 2 mg/L(based on: mobility) Daphnia magna (OECD Guideline 202 Part II)

12.1.3. Algae

- [D-Glucose, decyl octyl ethers, oligomeric] : EC50 (72 h): 27.22 mg/L (based on: growth rate) Scenedesmus subspicatus (DIN 38412, part 9)

- [Coco Glucoside] : EC50 (72 h): 10 mg/L (based on: biomass) Scenedesmus subspicatus (Annex of 92/69/EWG)

12.2. Persistence and degradability

12.2.1. Persistence

- [D-Glucose, decyl octyl ethers, oligomeric] : log Kow ≤ 1.77 (calculated)
- [Coco Glucoside] : log Kow \leq -0.07 (calculated)

12.2.2. Degradability

- Not available

12.3. Bioaccumulative potential

12.3.1. Bioaccumulation

- Not available

12.3.2. Biodegradability

- [D-Glucose, decyl octyl ethers, oligomeric] : Readily biodegradable (according to the OECD criteria)
- [Coco Glucoside] : Readily biodegradable (according to the OECD criteria)

12.4. Mobility in soil

- [D-Glucose, decyl octyl ethers, oligomeric] : log Koc: 1.7 at 25 °C
- [Coco Glucoside] : log Koc: 1.7 at 25 °C

12.5. Results of PBT and vPvB assessment

- According to Annex X IV of Regulation (EC) No. 1907/2006 concerning the Regulation, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6. Other adverse effects

- Not available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

- Since more than two kinds of designated waste is mixed, it is difficult to treat separately, then can be reduction or stabilization by incineration or similar process.

- If water separation is possible, pre-process with Water separation process.

- Dispose by incineration.

- The user of this product must dispose by oneself or entrust it to a waste disposer, a person who recycles other's waste or establishes and operates waste disposal facilities.

- Dispose of waste in accordance with all applicable laws and regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. UN No.

14.1.1. UN No. (ADR/RID/ADN)

Not applicable

14.1.2. UN No. (IMDG CODE/IATA DGR)

- Not applicable

14.1.3. UN No. (ICAO)

- Not applicable

14.2. UN proper shipping name

- Not applicable

14.3. Transport hazard class(es)

14.3.1. ADR/RID/ADN Class

- Not applicable

14.3.2. ADR/RID/ADN Class

- Not available

14.3.3. ADR Label No.

- Not applicable

14.3.4. IMDG Class

- Not applicable

14.3.5. ICAO Class/Division

- Not applicable

14.3.6. Transport Labels

- Not applicable

14.4. Packing group

14.4.1. ADR/RID/ADN Packing group

- Not applicable

14.4.2. IMDG Packing group

- Not applicable

14.4.3. ICAO Packing group

- Not available

14.5. Environmental hazards

- Not applicable

14.6. Special precautions for user

- Local transport follows in accordance with Dangerous goods Safety Management Law.

- Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.
- EmS FIRE SCHEDULE : Not available
- EmS SPILLAGE SCHEDULE : Not available
- Air transport(IATA): Not subject to IATA regulations.

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

- Not applicable

SECTION 15: REGULATORY INFORMATION

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

15.1.1. Europe regulatory

15.1.1.1 REACH Restricted substance under REACH

- Not applicable

- 15.1.1.2 REACH Substances subject to authorization under REACH
 - Not applicable

15.1.1.3 REACH SVHC

- Not applicable

15.1.1.4 Europe PBT

- Not applicable

15.1.1.5 European Union (EU) Transport of Dangerous Goods by Road - Dangerous Goods List

- Not applicable

15.2. Chemical Safety Assessment

- Not conducted

SECTION 16: OTHER INFORMATION

16.1. Indication of changes

- The Safety Data Sheet has been reviewed and the data therein were revised and laid out according the requirements of the Commission Regulation (EC) No. 1907/2006

16.2. Abbreviations and acronyms

- 1272/2008 CLP : Classification, Labelling and Packaging regulation.
- REACH : Registration, Evaluation and authorisation of chemical substances.
- DNEL : Derive no effects level

- PNEC : Predicted no effect concentration

16.3. Key literature references and sources for data

- This Safety Data Sheet was compiled with data and information from the following sources: RTECS, ECOSAR, HSDB, SIDS SIAP, ChemWATCH, CESAR, Chemical DB

16.4. Classification procedure

- The mixture classification has been derived based on the classification of the individual components in accordance with the rules set out in Regulation (EC) No 1272/2008 (CLP) as well as the translation tables in Annex VII to the same regulation.

16.5. Training advice

- Not applicable

16.6. Further information

- The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

- This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only.

- It should not therefore be construed as guaranteeing any specific property of the product.

- Contact National Helpdesks, List of Telephone Numbers : AUSTRIA (Vienna Wien) +43 1 515 61 0, BELGIUM (Brussels Bruxelles) +32 070 245 245, BULGARIA (Sofia) +359 2 9888 205, Croatia +385 1 2348 342 CZECH REPUBLIC (Prague Praha) +420 224 919 293 or +420 224 915 402, DENMARK (Copenhagen) 82 12 12 12, ESTONIA (Tallinn) 112, FINLAND (Helsinki) +358 9 471 977, FRANCE (Paris) +33 1 45 42 59 59, GERMANY (Berlin) +49 30 19240, GREECE (Athens Athinai) +30 210 77 93 777, HUNGARY (Budapest) +36 80 201 199, ICELAND (Reykjavik) +354 543 2222 or 112, IRELAND (Dublin) +353 1 8379964 or +353 1 809 2166, ITALY (Rome) +39 06 305 4343, LATVIA (Riga) 112 or +371 6704 2473, LITHUANIA (Vilnius) +370 5 236 20 52 or +370 687 53378, Luxembourg +352 70 245 245, MALTA +356 2122 4071, NETHERLANDS (Bilthoven) +31 30 274 88 88, NORWAY (Oslo) 22 591300, POLAND (Gdansk) +48 58301 65 16 or +48 58 349 2831, PORTUGAL (Lisbon Lisboa) 808 250 143, ROMANIA (Bucharest) +40 21 3183606 SLOVAKIA (Bratislava) +421 2 54 77 4166, SLOVENIA (Ljubljana) + 386 41 650 500, SPAIN +34 91 562 04 20(spanish language) or +34 91 768 98 00(You can request to be served in English), SWEDEN (Stockholm) 112 or +46 10 456 6700 (mon-fri 9.00-17.00), UNITED KINGDOM (London) 112 or 0845 4647 (NHS Direct).

Annex to extended safety data sheet (eSDS)

Exposure scenario

Exposure Scenario for Industrial distribution of Glyceryl oleate, D-glucopyranose, oligomeric, C08-14 glycosides

Exposure Scenario (ES) 1:	
ES Annex to the e-SDS	
Section 1	Exposure scenario Title
Title	Consumer use.
Systematic title based on use descriptor	SU21, SU22 ERC8A PC39
Processes, tasks, activities covered	Consumer use.
	 SU21 : Private Households(=general Public=consumers) SU22 : Public domain (administration, education, entertainment, services, craftsmen) ERC8A : Wide dispersive indoor use of processing aid in open systems PC39 : Cosmetic, personal care products
Assessment Method	EasyTRA
Section 2	Operational conditions and risk management measures

Implementation of basic standards of occupational hygiene;

Avoid direct contact with product;

Wear gloves (tested to EN374) if direct hand contact with the substance is likely; wash off skin contamination immediately;

Wear protective gloves and suitable eye protection at all times when handling the substance

Avoid splashes and spills;

Avoidance of contact with contaminated tools and objects;

Clean up contamination/spills as soon as they occur; Regular cleaning of equipment and work area;

Ensure suitable management/supervision is in place to check that the RMMs in place are being used correctly and OCs followed;

Train staff on good practice to prevent / minimise exposures and to report any eye problems that may develop;

Adopt good standards of personal hygiene.

Where activities may lead to aerosol release e.g. spraying, then additional skin and eye protection measures such as impervious suits and face shields may be required.

Section 2.1	Control of environmental exposure				
Product characteristic	Physical state	liquid			
	Concentration of substance in product	Up to 65 %			
	Vapour pressure of substance				
Amount	2500 to per year				
Frequency and duration of use/exposure	Frequency of exposure (annual)	220 times per year			
Environmental factors not influenced by risk management	River flow rate	18000 m3/day			
	Release to: air:	0.02 %			
Other given operational	Release to: water:	0.001 %			
conditions affecting	Release to soil:	0 %			
environmental exposure	Fraction used at main source:	100 %			
	Fraction tonnage to region:	100 %			
Technical conditions and measures at process level (source) to prevent release	No specific technical prevention measures	required			
Organizational measures related to municipal sewage treatment plant	No specific organizational measures requi	red			
Conditions and measures related to treatment of waste	No specific conditions and measures requi	red			
Section 3	Exposure Estimation				
Section 3.1	Health				
The quantitative risk characte	risation for this worker exposure (long-term	systemic effects) has been calcula	ted by EasyTRA.		
PROC#	Workers exposure	Exposure concentraion (EC)	DNEL	RCR	
PROC9	Inhalation (mg/m3)	1.754000	420	0.004177	
	Dermal (mg/kg/day)	6.857000	5.95E+05	0.000012	
	Combined (mg/kg/day)	7.108000		0.004188	
PROC4	Inhalation (mg/m3)	1.754000	420	0.004177	
	Dermal (mg/kg/day)	6.857000	5.95E+05	0.000012	
	Combined (mg/kg/day)	7.108000		0.004188	
PROC3	Inhalation (mg/m3)	1.754000	420	0.004177	
	Dermal (mg/kg/day)	0.342857	5.95E+05	5.76E-07	
	Combined (mg/kg/day)	0.593452 0.			
PROC5		0.075152			
indes	Inhalation (mg/m3)	1.754000	420	0.004177	
	Inhalation (mg/m3) Dermal (mg/kg/day)	1.754000 13.714000	420 5.95E+05	0.004177 0.000023	
	Inhalation (mg/m3) Dermal (mg/kg/day) Combined (mg/kg/day)	1.754000 13.714000 13.965000	420 5.95E+05	0.004177 0.000023 0.004200	
PROC15	Inhalation (mg/m3) Dermal (mg/kg/day) Combined (mg/kg/day) Inhalation (mg/m3)	1.754000 13.714000 13.965000 1.754000	420 5.95E+05 420	 0.004177 0.000023 0.004200 0.004177 	
PROC15	Inhalation (mg/m3) Dermal (mg/kg/day) Combined (mg/kg/day) Inhalation (mg/m3) Dermal (mg/kg/day)	1.754000 13.714000 13.965000 1.754000 0.342857	420 5.95E+05 420 5.95E+05	0.004177 0.000023 0.004200 0.004177 5.76E-07	
PROC15	Inhalation (mg/m3) Dermal (mg/kg/day) Combined (mg/kg/day) Inhalation (mg/m3) Dermal (mg/kg/day) Combined (mg/kg/day)	1.754000 13.714000 13.965000 1.754000 0.342857 0.593452	420 5.95E+05 420 5.95E+05	0 0.004177 0.000023 0.004200 0 0.004177 5.76E-07 0.004177	
PROC15 PROC2	Inhalation (mg/m3) Dermal (mg/kg/day) Combined (mg/kg/day) Inhalation (mg/m3) Dermal (mg/kg/day) Combined (mg/kg/day) Inhalation (mg/m3)	1.754000 13.714000 13.965000 1.754000 0.342857 0.593452 1.754000	420 5.95E+05 420 5.95E+05 420	 0.004177 0.000023 0.004200 0.004177 5.76E-07 0.004177 0.004177 	
PROC15 PROC2	Inhalation (mg/m3) Dermal (mg/kg/day) Combined (mg/kg/day) Inhalation (mg/m3) Dermal (mg/kg/day) Combined (mg/kg/day) Inhalation (mg/m3) Dermal (mg/kg/day)	1.754000 13.714000 13.965000 1.754000 0.342857 0.593452 1.754000 1.371000	420 5.95E+05 420 5.95E+05 420 5.95E+05	 0.004177 0.000023 0.004200 0.004177 5.76E-07 0.004177 0.004177 0.004177 2.30E-06 	

PROC#	Workers exposure	Exposure concentration (E0	C) DNEL	RC	CR
PROC8B	Inhalation (mg/m3)	1.7	54000	420	0.004177
	Dermal (mg/kg/day)	6.8	\$57000	5.95E+05	0.000012
	Combined (mg/kg/day)	7.1	08000		0.004188
PROC14	Inhalation (mg/m3)	1.7	54000	420	0.004177
	Dermal (mg/kg/day)	3.4	29000	5.95E+05	5.76E-06
	Combined (mg/kg/day)	3.6	579000		0.004182
PROC1	Inhalation (mg/m3)	0.1	75417	420	0.000418
	Dermal (mg/kg/day)	0.3	42857	5.95E+05	5.76E-07
	Combined (mg/kg/day)	0.3	67917		0.000418
Section 3.2		Environment			

The quantitative risk characterisation for this environmental exposure has been calculated by EasyTRA.

The environmental exposure calculation per compartment is based on the algorithms of the EU TGD 2003 Risk Assessment Spreadsheet Model 1.24a.

Compartments		PEC	PNEC	RCR	
Aquatic	Freshwater (mg/L)	0.00172	23	0.100	0.017230
	Freshwater sediment (mg/kg)	0.00786	52	0.487	0.016143
	Marine water (mg/L)	0.00017	79	0.005	0.035768
	Marine water sediment (mg/kg)	0.0008	16	0.048	0.017000
Terrestrial	Agricultural soil (mg/kg)	0.00024	49	0.654	0.000381
	Grassland (mg/kg)	0.00024	45	0.654	0.000375
STP	Microbiological activity (mg/kg)	0.00017	78	5000	3.56E-08
Secondary poisoning/Humans exposed via the environment	Food source	Exposure concentration (EC)	DNEL	RCR	
	Fish (mg/kg)	3.95E-0)6	35.7	1.11E-07
	Root crop (mg/kg)	1.46E-0	06	35.7	4.08E-08
	Leaf crop (mg/kg)	0.00002	20	35.7	5.61E-07
	Milk (mg/kg)	1.10E-0)8	35.7	3.08E-10
	Meat (mg/kg)	5.90E-1	10	35.7	1.65E-11
	Drinking water (mg/kg)	0.00004	49	35.7	1.36E-06
	Inhalation (mg/kg)	3.02E-0)9	35.7	8.45E-11
	Total (mg/kg)	2.08E-0)6	35.7	2.08E-06

Section 4

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

The workers exposure and environmental emissions have been evaluated using Ecetoc TRA integrated tool version 2.

If the local environmental emission conditions deviate significantly from the used default values, please use the algorithm below to estimate the correct local emissions and RCRs:

PECcorrected = PECcalculated * (local emission fraction) * (local WWTP flow rate fraction) * (local river flow rate fraction) * (local STP efficiency fraction)

Example for calculation your local freshwater PEC:

Corrected freshwater PEC = 0.104 * (your local emission [kg/day] / 15) * (2000 / your local WWTP flow rate [m3/day]) * (18000 / your local river flow rate [m3/day]) * ((1 - your local WWTP efficiency) / 0.1)

Ann	ex to extended safety data s	sheet (eSDS)
Ε	xposure scenario	
	Exposure Scenario for Indu	strial distribution of Glyceryl oleate, D-glucopyranose, oligomeric, C08-14 glycosides
	Exposure Scenario (ES) 1:	
	ES Annex to the e-SDS	
	Section 1	Exposure scenario Title
	Title	Formulation of Detergents/Maintenance Products: Granular Detergent
	Systematic title based on use descriptor	SU3, SU21, SU22 PROC9, PROC4, PROC3, PROC5, PROC15, PROC2, PROC8B, PROC14, PROC1 ERC2
	Processes, tasks, activities covered	Industrial:

PROC4: Use in batch and other process(synthesis) where opportunity for exposure arises; Industrial setting PROC3: Use in closed batch process (synthesis or formulation); Industrial setting PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or

significant contact) Industrial setting

PROC15: Use a laboratory reagent; Non-industrial setting

PROC2: Use in closed, continuous process with occasional controlled exposure (e.g. sampling); Industrial setting PROC8B: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelettisation; Industrial setting PROC1: Use in closed process, no likelihood of exposure; Industrial setting

Section 2	Onerational conditions and wisk management mangunes
Assessment Method	EasyTRA

Industrial setting

Implementation of basic standards of occupational hygiene;

Avoid direct contact with product;

Wear gloves (tested to EN374) if direct hand contact with the substance is likely; wash off skin contamination immediately;

Wear protective gloves and suitable eye protection at all times when handling the substance

Avoid splashes and spills;

Avoidance of contact with contaminated tools and objects;

Clean up contamination/spills as soon as they occur;

Regular cleaning of equipment and work area;

Ensure suitable management/supervision is in place to check that the RMMs in place are being used correctly and OCs followed;

Train staff on good practice to prevent / minimise exposures and to report any eye problems that may develop;

Adopt good standards of personal hygiene.

Where activities may lead to aerosol release e.g. spraying, then additional skin and eye protection measures such as impervious suits and face shields may be required.

Section 2.1	Control of environmental exposure					
Product characteristic	Physical state	1	iquid			
	Concentration of substance in product	τ	Up to 65 %			
	Vapour pressure of substance					
Amount	2500 to per year					
Frequency and duration of use/exposure	Frequency of exposure (annual)	2	220 times per year			
Environmental factors not influenced by risk management	River flow rate	1	18000 m3/day			
	Release to: air:	(0.02 %			
Other given operational	Release to: water:	(0.001 %			
conditions affecting	Release to soil:	() %			
environmental exposure	Fraction used at main source:	1	100 %			
	Fraction tonnage to region:	1	100 %			
Technical conditions and measures at process level (source) to prevent release	No specific technical prevention measure	es required				
Organizational measures related to municipal sewage treatment plant	No specific organizational measures requ	uired				
Conditions and measures related to treatment of waste	No specific conditions and measures req	uired				
Section 3	Exposure Estimation					
Section 3.1	Health					
The quantitative risk characte	erisation for this worker exposure (long-ter	m systemic effects	s) has been calcula	ted by Easy1	TRA.	
PROC#	Workers exposure	Exposure conce	ntraion (EC)	DNEL	RCR	
PROC9	Inhalation (mg/m3)		1.754000		420	0.004177
	Dermal (mg/kg/day)		6.857000	1	5.95E+05	0.000012
	Combined (mg/kg/day)		7.108000			0.004188
PROC4	Inhalation (mg/m3)		1.754000		420	0.004177
	Dermal (mg/kg/day)		6.857000	:	5.95E+05	0.000012

Section 3.2		Environment		
	Combined (mg/kg/day)	0.367917		0.000418
	Dermal (mg/kg/day)	0.342857	5.95E+05	5.76E-07
PROC1	Inhalation (mg/m3)	0.175417	420	0.000418
	Combined (mg/kg/day)	3.679000		0.004182
	Dermal (mg/kg/day)	3.429000	5.95E+05	5.76E-06
PROC14	Inhalation (mg/m3)	1.754000	420	0.004177
	Combined (mg/kg/day)	7.108000		0.004188
	Dermal (mg/kg/day)	6.857000	5.95E+05	0.000012
PROC8B	Inhalation (mg/m3)	1.754000	420	0.004177
PROC#	Workers exposure	Exposure concentration (EC)	DNEL	RCR
	Combined (mg/kg/day)	1.622000		0.004179
	Dermal (mg/kg/day)	1.371000	5.95E+05	2.30E-06
PROC2	Inhalation (mg/m3)	1.754000	420	0.004177
	Combined (mg/kg/day)	0.593452		0.004177
	Dermal (mg/kg/day)	0.342857	5.95E+05	5.76E-07
PROC15	Inhalation (mg/m3)	1.754000	420	0.004177
	Combined (mg/kg/day)	13.965000		0.004200
	Dermal (mg/kg/day)	13.714000	5.95E+05	0.000023
PROC5	Inhalation (mg/m3)	1.754000	420	0.004177
	Combined (mg/kg/day)	0.593452		0.004177
	Dermal (mg/kg/day)	0.342857	5.95E+05	5.76E-07
PROC3	Inhalation (mg/m3)	1.754000	420	0.004177
	Combined (mg/kg/day)	7.108000		0.004188

Section 3.2

The quantitative risk characterisation for this environmental exposure has been calculated by EasyTRA.

The environmental exposure calculation per compartment is based on the algorithms of the EU TGD 2003 Risk Assessment Spreadsheet Model 1.24a.

Compartments		PEC	PNEC	RCR	
Aquatic	Freshwater (mg/L)	0.001723	3	0.100	0.017230
	Freshwater sediment (mg/kg)	0.007862	2	0.487	0.016143
	Marine water (mg/L)	0.000179)	0.005	0.035768
	Marine water sediment (mg/kg)	0.000816	5	0.048	0.017000
Terrestrial	Agricultural soil (mg/kg)	0.000249	9	0.654	0.000381
	Grassland (mg/kg)	0.000245	5	0.654	0.000375
STP	Microbiological activity (mg/kg)	0.000178	3	5000	3.56E-08
Secondary poisoning/Humans exposed via the environment	Food source	Exposure concentration (EC)	DNEL	RCR	
	Fish (mg/kg)	3.95E-0	5	35.7	1.11E-07
	Root crop (mg/kg)	1.46E-00	5	35.7	4.08E-08
	Leaf crop (mg/kg)	0.000020)	35.7	5.61E-07
	Milk (mg/kg)	1.10E-08	3	35.7	3.08E-10
	Meat (mg/kg)	5.90E-10)	35.7	1.65E-11
	Drinking water (mg/kg)	0.000049	9	35.7	1.36E-06
	Inhalation (mg/kg)	3.02E-09)	35.7	8.45E-11
	Total (mg/kg)	2.08E-00	5	35.7	2.08E-06
Section 4		Guidance to DU to evaluate whether he works inside the boundaries			

Section 4

set by the ES

The workers exposure and environmental emissions have been evaluated using Ecetoc TRA integrated tool version 2.

If the local environmental emission conditions deviate significantly from the used default values, please use the algorithm below to estimate the correct local emissions and RCRs:

PECcorrected = PECcalculated * (local emission fraction) * (local WWTP flow rate fraction) * (local river flow rate fraction) * (local STP efficiency fraction)

Example for calculation your local freshwater PEC:

Corrected freshwater PEC = 0.104 * (your local emission [kg/day]/15) * (2000 / your local WWTP flow rate [m3/day]) * (18000 / your local river local river local model) * (18000 / your local river local model) * (18000 / your local model) * (18000flow rate [m3/day]) * ((1 - your local WWTP efficiency) / 0.1)