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

· **Product identifier**

· **Trade name: [Redacted]**
· **Description:** Ceto-Stearyl Alcohol

· **CAS Number:**
67762-27-0 /
36653-82-4 & 112-92-5

· **EINECS Number:**
267-008-6 /
253-149-0 & 204-017-6
· **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
· **Application of the substance / the mixture**
Chemicals for synthesis
Chemical intermediate
Lubricant
Intermediate
Skin cosmetics
Cosmetic auxiliary

· **Details of the supplier of the safety data sheet**

Manufacturer and supplier identification and contact details removed.

Supplier emergency telephone numbers removed.

Use the original supplier SDS for emergency contact information.

2 Hazards identification

· **Classification of the substance or mixture**
The product is not classified according to the Globally Harmonised System (GHS).

· **Label elements**
· **GHS label elements** Not applicable
· **Hazard pictograms** Not applicable
· **Signal word** Not applicable
· **Hazard statements** Not applicable
· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.

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· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterisation: Mixtures**

· **Description:**
CAS number:
67762-27-0 Alcohols, C16-18 /
36653-82-4 & 112-92-5 Hexadecanol & Octadecanol

EC number:
267-008-6 /
253-149-0 & 204-017-6

· **Dangerous components:**
This product is not classified as hazardous to health and environment according to GHS/CLP regulation.

4 First aid measures

· **Description of first aid measures**
· **General information:** Immediately remove any clothing soiled by the product.
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
Call a doctor immediately.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **Special hazards arising from the substance or mixture**
Under certain fire conditions, traces of other toxic gases cannot be excluded.
· **Advice for firefighters** Avoid breathing dust/fume/gas/mist/vapours/spray.
· **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear self-contained respiratory protective device.
Wear fully protective suit.
In case of insufficient ventilation, wear suitable respiratory equipment.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Use respiratory protective device against the effects of fumes/dust/aerosol.
· **Environmental precautions:** Do not allow product to reach sewage system or any water course.
· **Methods and material for containment and cleaning up:**
Pick up mechanically.
Dispose of the material collected according to regulations.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Open and handle receptacle with care.
Keep away from heat and direct sunlight.
Store in cool, dry place in tightly closed receptacles.
· **Information about fire - and explosion protection:**
Keep respiratory protective device available.
Keep ignition sources away - Do not smoke.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
· **Information about storage in one common storage facility:** Store away from oxidising agents.
· **Further information about storage conditions:**
Keep container tightly sealed.
Protect from heat and direct sunlight.
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **Control parameters**
· **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Be sure to clean skin thoroughly after work and before breaks.
Avoid contact with the eyes and skin.
Immediately remove all soiled and contaminated clothing
· **Respiratory protection:** Use suitable respiratory protective device only when aerosol or mist is formed.
· **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:**
Safety glasses
Goggles recommended during refilling

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Solid
Colour:	White
· **Odour:**	Characteristic
· **Odour threshold:**	Not determined.
· **pH-value:**	Not applicable.
· **Change in condition**	
Melting point/Melting range:	ca. 49 - 59 ℃

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Boiling point/Boiling range:	ca. 300 - 360 ℃
· **Flash point:**	ca. 170 ℃ (DIN 51758/ISO 2719)
· **Flammability (solid, gaseous):**	Product is not flammable
· **Ignition temperature:**	
Decomposition temperature:	Not determined.
· **Self-igniting:**	Not determined.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapour pressure:**	Not determined.
· **Density at 20 ℃:**	ca. 0,805-0,815 g/cm³ (DIN 51757 B)
· **Relative density**	Not determined.
· **Vapour density**	Not applicable.
· **Evaporation rate**	Not applicable.
· **Solubility in / Miscibility with water:**	Insoluble.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic at 60 ℃:	ca. 10 - 11 mPas
Kinematic:	Not applicable.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability** Stable at environment temperature.
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** See Section 7 for information on safe handling.
· **Incompatible materials:** See Section 7 for information on safe handling.
· **Hazardous decomposition products:**
Irritant gases/vapours
Carbon monoxide and carbon dioxide

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity**

· **LD/LC50 values relevant for classification:**		
67762-27-0 Alcohols, C16-18		
Oral	LD50	> 10, 000 mg/kg bw (Rat) (Limit Test)
Dermal	LD50	> 8000 mg/kg bw (Rabbit)

· **Primary irritant effect:**
· **Skin corrosion/irritation** No irritating effect.
· **Serious eye damage/irritation** No irritating effect.
· **Respiratory or skin sensitisation** No sensitising effects known.
· **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

· **Repeated dose toxicity**		
67762-27-0 Alcohols, C16-18		
Oral	NOAEL (subchronic)	> 1000 mg/kg bw/d (Rat) (OECD 407; Analogy Hexadecanol; CAS 36653-82-4)

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12 Ecological information

· **Aquatic toxicity:**

67762-27-0 Alcohols, C16-18	
EC0 (30 mins)	9950 mg/L (Pseudomonas putida) (DIN 38412; Analogy Octadecanol; CAS112-92-5)
LC0 (96h)	9950 mg/L (fish) (ISO 7346/1-3; Analogy Octadecanol; CAS 112-92-5)

· **Persistence and degradability** Easily biodegradable
· **Behaviour in environmental systems:**
· **Bioaccumulative potential** Does not accumulate in organisms
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
WGK Germany: nwg
WGK Registration 656 for CAS No. 67762-27-0.
Generally not hazardous for water
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation** Must be specially treated adhering to official regulations.

· **Uncleaned packaging:**
· **Recommendation:** Packagings that may not be cleansed are to be disposed of in the same manner as the product.

14 Transport information

· **UN-Number** · **ADR, ADN, IMDG, IATA**	Not regulated
· **UN proper shipping name** · **ADR, ADN, IMDG, IATA**	Not regulated
· **Transport hazard class(es)** · **ADR, ADN, IMDG, IATA** · **Class**	Not regulated
· **Packing group** · **ADR, IMDG, IATA**	Not regulated
· **Environmental hazards:** · **Marine pollutant:**	No
· **Special precautions for user**	Not applicable.
· **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**	Product name : Alcohols (C14-18), primary, linear and essentially linear Pollution category: Y Ship type: 2
· **UN "Model Regulation":**	Not regulated

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **GHS label elements** Not applicable
· **Hazard pictograms** Not applicable
· **Signal word** Not applicable
· **Hazard statements** Not applicable
· **Other regulations, limitations and prohibitive regulations**

Positive Country Substance Listing for CAS No. 67762-27-0:

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USA (TSCA), Canada (DSL), Europe (EINECS) : 267-008-6, Japan (ENCS) : 2-217, Australia (AICS), Korea (ECL) : KE-00315, China (IECSC), Philippines (PICCS), New Zealand (NZIOC) & Taiwan (CSNN).

Alternative CAS numbers to be used in combination:
Positive Country Substance Listing for CAS No. 36653-82-4:
USA (TSCA), Canada (DSL), Europe (EINECS) : 253-149-0, Japan (ENCS) : 2-217, Australia (AICS), Korea (ECL) : KE-18460, China (IECSC), Philippines (PICCS), New Zealand (NZIOC), Taiwan (CSNN).

Positive Country Substance Listing for CAS No. 112-92-5:
USA (TSCA), Canada (DSL), Europe (EINECS) : 204-017-6, Japan (ENCS) : 2-217, Australia (AICS), Korea (ECL) : KE-26419, China (IECSC), Philippines (PICCS), New Zealand (NZIOC) & Taiwan (CSNN).

Note: The substance name and CAS numbers which are used for this product in the stated inventories may deviate from the information listed in Section 3.

· **Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Supplier contact details redacted.

· **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
NOAEL: No Observed Adverse Effect Level
RA : Read across
LDLo: Lowest Published Lethal Dose
VOID: Not regulated / Not Classified / Not a Dangerous Good
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

· **Sources**
Official Journal of the European Union Regulation (EC) No 1907/2006
Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Third Revised Edition.
Official Journal of the European Union Regulation (EC) No 1272/2008
Official Journal of the European Union Commission Regulation (EU) No 453/2010
IMO (2008). IMDG Code International Maritime Dangerous Goods Code. Incorporating Amendment 34-08. 2008 Edition, Volume 1 & 2.
IMO (2007). IBC Code 2007 Edition.
IUCLID Dataset Substance ID: 67762-27-0, dated 19-Feb-2000

· *** Data compared to the previous version altered.**

Revision history

Revision 1 (27 Jul 2011)
New issuance of GHS/CLP SDS.

Revision 2 (18 Jun 2012)
Sect. 5 - Revise suitable and unsuitable extinguishing media.

Revision 3 (6 Nov 2013)
Sect. 1 - Update REACH registration number for both C16 & C18 alcohol for EU version.
Sect. 12 - Add WGK Reg. No. 656 for CAS No. 67762-27-0.
Sect. 15 - Review Positive Country Substance Listing.

Revision 4 (14 Nov 2013)
Sect. 1 & 3 - Reflect individual CAS number for C16 & C18 Alcohols.
Sect. 2 - Revise wording "substance" to "product" for GHS classification status statement.
Sect. 3 - Revise Chemical Characterization from "Substance" to "Mixture".

Revision 5 (05 Oct 2015)
Sect. 8 - Delete NOEC value in order to consistent with GHS classification.

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Sect. 11 - Reflect latest format in reporting toxicological information according to EU text.
Sect. 14 - Revise term "Void" to "Not regulated" in order to clearly report transport information status.
Sect. 15 - Update Positive Country Substance Listing.
All - Reflect SDS structure according to Regulation (EU) 2015/830.

Revision 6 (04 Apr 2016)
Sect. 1 - Update 'skin cosmetic' and 'auxilliary cosmetic" as identified uses.
Sect. 11 - Add CMR information due to technical error in previous revision.
Sect. 15 - Update Positive Country Substance Listing. Include information for alternative CAS numbers in combination.