NISOTEC HIPO EP SAE 85W-140

Дата на ревизията:
1.10.2023.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
1.1. Product Identifier	
Trade name	NISOTEC HIPO EP SAE 85W-140
1.2. Relevant identified uses of the substance or mixture and uses advised against	
Recommended use	Automotive gear oil.
Uses advised against	Should not be used for any purposes other than recommended.
1.3. Details of the supplier of the safety data sheet	
Manufacturer	NIS j.s.c. Novi Sad, Narodnog fronta 12, 21000 Novi Sad, Serbia. Phone: +381 08 0000 8888 (24h) Email: nis.maziva@nis.rs
Supplier	"Deny Trade" LTD, Office: Stara Zagora 6000, 92 Hristo Botev Str., 4th floor Warehouse: Zagora 6000, Kolyo Ganchev district, Agricultural aviation Tel./Fax: 042 606 899 office@denitrade.com
1.4. Emergency telephone	
National emergency telephone	112
National Toxicological Information Center, MHAT and Emergency Medicine "N. I. Pirogov"	Emergency telephone / fax: +359 2 9154 409 Email: poison_centre@mail.orbitel.bg http://www.pirogov.bg

2. HAZARDS IDENTIFICATION	
2.1. Classification of the substance or mixture	
Classification according to Regulation (EC) No. 1272/2008 (CLP)	Aquatic Chronic 3, H412 For the full text of the H-Statements see section 16.
Further information	Adverse physicochemical, human health and environmental effects: No additional information available.
2.2. Label elements	
Hazard pictograms	Not applicable.
Signal word	Not applicable.
Hazard statements	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	P273 - Avoid release to the environment. P501 - Dispose of contents, container in accordance with local, regional, national and international regulation.
Supplemental Hazard information (EU)	EUH208 - Contains polysulfides, di-tert-Bu and reaction products of bis (4-methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). May produce an allergic reaction.
Supplemental label information:	Not applicable.
2.3. Other hazards	
Other hazards	The mixture contains no components considered to be PBT/vPvB at levels of 0.1% or higher. The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS	
3.1. Substances	
Substances	Not applicable
3.2. Mixtures	

Index No CAS No EC No	Concentration range w/w %	CLP/GHS1	REACH Registration No.	% [weight]	Substance name	Classification according to Regulation (EC) No 1278/2008 (CLP)
649-471-00-X 64742-62-7 265-166-0	80 - 100	Not classified	01-2119480472-38		Residual oils (petroleum), solvent-dewaxed	
	≤ 4	Skin Sens. 1B, H317 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 Specific conc. limit: Skin Sens. 1B , c > 46 - 100 % Aquatic Chronic 3, H412 Specific conc. limit: Skin Sens. 1B , c > 46 - 100 %	UK-01-2783246473-2		Polysulfides, di-tert-Bu	
- - 931-384-6	≤ 0.8	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411 Specific conc. limit: Skin Sens. 1B, c> 9.39 -100% Eye Irrit. 2, c > 50.01 - 100%	UK-01-3357647710-4		Reaction products of bis (4 methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)	
					Residual oils (petroleum), solvent-dewaxed are not classified as cancerogenic substances as it can be shown that they contain < 3% of dimethylsulfoxide (DMSO) as measured by test method IP 346 (Note L, Annex VI of Regulation (EC) 1272/2008). For the full text of the H-statements see Section 16.	

4. FIRST AID MEASURES

4.1. Description of first aid measures

Following inhalation	Move casualty away from source of exposure. Provide fresh air. If symptoms persist, call a physician. If breathing heavily, irregularly, or not breathing, give artificial respiration (only by skilled, qualified personnel). Make sure respiratory tract passages are free of obstacles at every moment. Seek medical attention promptly.
Following skin contact	Remove contaminated clothing and shoes. Wash place of contact with mild soap and water. If skin irritation or rush occurs, get medical advice. Wash contaminated clothing before reuse. In case of contact with hot products, run cool water over burned area. Do not try to remove by force parts of clothes which get stuck to the exposed person's skin as a consequence of contact with hot products. In this situation, one should seek medical attention.
Following eye contact	Immediately rinse eyes with plenty of running water. When rinsing eyes, hold eyelid apart from eyeball to ensure a thorough rinsing (by forcibly holding the eye wide open with hands). Remove contact lenses, if any, and continue rinsing the eyes for at least 15 minutes. If irritation occurs, consult a physician. Chemical burns must be treated promptly by a physician.
Following ingestion	Get medical attention promptly. Do not wait for the symptoms to occur. Do not induce vomiting, the product contains petroleum distillates which are harmful if swallowed and enters airways. If vomiting occurs, head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person.

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

Inhalation acute effects	It is unlikely adverse affects will occur if the substance is inhaled at a normal temperature and pressure. When heated evaporates. If inhaled high vapour concentration leads to irritations of the respiratory system, including nose and throat irritation.
Skin contact acute effects	May cause an allergic skin reaction depending on the individual skin sensitivity. Contact with heated material leads to chemical burns.
Eye contact acute effects	No irritation expected. Contact with heated material leads to chemical burns.
Ingestion delayed effects	Symptoms are not likely to occur if ingested in small quantities. If large quantities are ingested, nausea, abdominal pain, vomiting will occur.

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

Notes to physician	The treatment should be carried out based on symptoms present and the patient's clinical state.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	In case of a small, initial fire, use dry chemical powder, sand, soil or carbon-oxide. In case of a large fire, use water mist/spray (only by trained personnel) or foam (only by trained personnel).
Unsuitable extinguishing media	Direct water jet, as it may spread the fire. Avoid simultaneous use of water and foam on the same surface because water will destroy foam.

5.2. Special hazards arising from the substance or mixture

Hazards from the substance or mixture	This product is not classified as flammable. If the burning process is initiated, the product may start burning, whereat a complex mixture of unidentified organic and inorganic compounds and gases may form, such as carbon dioxide and carbon monoxide.

5.3. Advice for firefighters

Special precautions for fire-fighters	Evacuate people from by fire covered area. Product which is not on fire should be moved to a safe zone, if minimum risk is involved. Use water spray to cool unopened containers which were on fire in the hazard zone. Do not allow water used to cool container to enter drains, surface water and groundwater, or soil. Collect and dispose of it in accordance with the applicable local regulations. The fire-fighters should wear the complete personal protective equipment, including the self contained breathing apparatus with a whole-face mask functioning on the principle of positive-pressure (SCBA).

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Protective equipment for non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate the danger area, observe emergency procedures, contact emergency personnel. Avoid direct contact with skin and eyes. Do not inhale oil mist. Do not touch or walk through spilled material. Use adequate personal protective clothing and equipment (refer to Section 8). Keep away from heat and sources of ignition. Remove all sources of ignition and sparking. Move to a well-ventilated place, away from the source of the accident.
For emergency responders	Use adequate personal protective clothing and equipment (refer to Section 8). Remove all sources of ignition and sparking. Isolate the danger area.

6.2. Environmental precautions

Environmental precautions	Avoid spreading of spillage, run off and contact with soil, waterways, drains and sewers. Inform the competent authorities in case of contamination of environment (soil, waterways or sewers).

6.3. Methods and material for containment and cleaning up

For containment	In the cleaning process, do not use sparking tools and equipment. Remove all sources of ignition from the spillage zone. Prevent spreading and run off product by constructing sand and soil barriers. In case of large spillage, collect it using pumps and dispose of it into containers intended for waste disposal. In case of small leaks, use soil or some other inert, non-combustible absorbent material to collect spillage. Put the collected spillage into closed containers intended for further disposal. Disposal should be carried out by an authorized operator. In case of small leaks in closed water systems, prevent spreading by floating barriers or similar equipment, and collect it using specific floating absorbents.

6.4. Reference to other sections

Reference to other sections	Follow instructions under Section 8 related to personal protection and waste treatment and disposal instructions under section 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Protective measures	In the process of handling, avoid direct skin and eye contact. Use adequate personal protective equipment (for further information, refer to section 8.2). Store and use away from open flame, sparks, heat and other ignition sources. During handling, do not use sparking tools and equipment. Avoid static electricity discharge. Loading should be performed exclusively at prescribed places and into adequate tanks, using functional equipment and devices, by professionally trained and experienced personnel. After finishing the activity, keep in tightly closed containers. Obey occupational safety, fire protection and general hygiene measures. Do not eat, drink, or smoke during handling. Before breaks and after finishing the work, wash the hands thoroughly. Before entering a food service area, take off the contaminated clothing and protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	Store the product in a dry, cold, well ventilated place, protected from direct weather effects. Keep in original, undemaged, closed and labelled packaging. Avoid exposure to direct sunlight, heat sources, open flames, sparks and other sources of ignition. Weather conditions may damage the label on the packaging. Store away from incompatible materials (refer to section 10.5.). Keep away from food, drink and animal feed. The plugs of packaging must be tightly closed. Before removing the plugs, dry the upper surface of the barrel and clean it of all contaminants that could get into the product. The recommended storage temperature: 0 – 40°C.

7.3. Specific end use(s)

Recommendations	The identified uses of this product are detailed in sub-section 1.2

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

List of components with OEL value

Predicted No Effect Concentration (PNEC) values

Component	CAS No.	PNEC limit	Exposure Route	Exposure Frequency	Remark
Polysulfides, di-tert-Bu	68937-96-2	STP - 4.51 mg/l	Water	0.24 µg/l (fresh water) 0.024 µg/l (marine water)	
			Sediment	0.94 mg/kg (fresh water) 0.094 mg/kg (marine water)	
			Soil	0.0181 mg/kg	
			Oral	6.66 mg/kg	
(Z)-N-9-octadecenylpropane-1,3-diamine	7173-62-8	STP - 251 µg/l	Water	0.26 µg/l (fresh water) 0.026 µg/l (marine water)	

Derived No Effect Level (DNEL)

Component	CAS No.	Worker Industry	Worker Professional	Consumers	Exposure Route	Exposure Frequency	Remark
Polysulfides, di-tert-Bu	68937-96-2<			0.167 mg/kg (general population)	Oral	Long - term exposure - systemic effects	
				3.29 mg/m3 (workers)	Inhalation	Long - term exposure - systemic effects	
				0.58 mg/m3 (general population)		Long - term exposure - systemic effects	
				4.67 mg/kg (работници)	Dermal	Long - term exposure - systemic effects	
				1.67 mg/kg (general population)		Long - term exposure - systemic effects	
(Z)-N-9-octadecenylpropane-1,3-diamine	7173-62-8			0.002 mg/kg (general population)	Oral	Long - term exposure - systemic effects	
				39.5 µg/m3 (workers)	Inhalation	Long - term exposure - systemic effects	
				6.96 µg/m3 (general population)		Long - term exposure - systemic effects	
				0.0056 mg/kg (работници)	Dermal	Long - term exposure - systemic effects	
				0.002 mg/kg (general population)		Long - term exposure - systemic effects	
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9			0.04 mg/kg (general population)	Oral	Long - term exposure - systemic effects	
				0.38 mg/m3 (workers)	Inhalation	Long - term exposure - systemic effects	
				1 mg/m3 (workers)		Long - term exposure - local effects	
				0.035 mg/m3 (general population)		Long - term exposure - systemic effects	

8.2. Exposure controls

Подходящ инженерен контрол	Mechanical ventilation and local exaust systems will reduce exposure via the air.
Eye and face protection	Wear tightly fitting safety goggles providing adequate protection against sprays of liquid product in the eyes (EN 166).
Body protection	Wear antistatic protective clothing - long sleeve shirts and long trousers. Wear antistatic shoes resistant to chemicals, thermally insulated, if required, according to the EN 340.
Hand protection	Wear gloves resistant to chemicals (EN374). The gloves should be periodically inspected and replaced in case of wear and tear, perforation or contamination.
Environmental exposure controls	Apply adequate control measures to prevent contact with environment.
Respiratory protection	To prevent irritation of respiratory system, avoid inhalation of vapours. If it is not possible to assess the exposure level reliably or there is a risk of reduced supply of oxygen, use the self-contained breathing apparatus (SCBA). Selection of respiratory protective equipment should be made in accordance with the specific activities, level of exposure and anticipated exposure period.
Hygiene measures	Wash hands, forearms, and face thoroughly when finished working with product, before eating, drinking, smoking, or going to toilet. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State	liquid
Colour	brown
Odour	characteristic
Melting point/freezing point	not applicable, see point 9.2
Pour point	≤ - 12°C (ISO 3016)
Boiling point or initial boiling point and boiling range	not determined
Flammability	not determined
Lower and upper explosion limit	not determined
Flash point	≥ 220°C, тип. 228°C (ISO 2592)
Auto-ignition temperature	not determined
Decomposition temperature	not determined
pH	not determined
Kinematic viscosity	370 mm2/s at 40°C (ISO 3104) 26 mm2 /s at 100°C (ISO 3104)
Solubility	soluble in oil and greases, insoluble in water
Partition coefficient n-octanol/water (log value)	not determined
Vapour pressure	not determined
Density and/or relative density	906 kg/m3 at 15°C (ASTM D 4052)
Relative vapour density	not determined
Particle characteristics	not applicable

9.2. Other information

10. STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity	No reactivity hazard is expected under recommended handling and storage conditions.

10.2. Chemical stability

Chemical stability	Stable under recommended handling and storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Hazard reactions will not occur under recommended handling and storage conditions.

10.4. Conditions to avoid

Conditions to avoid	Avoid exposure to high temperatures, open flame, sparks, and other ignition sources, storing with incompatible substances.

10.5. Incompatible materials

Incompatible materials	Strong oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products	Under regular and recommended conditions or storing and use, the product will not decompose and form hazardous products. In the combustion process, a complex mixture of unidentified organic and inorganic compounds and gases may be formed, such as carbon dioxide and carbon monoxide.

11. TOXICOLOGICAL INFORMATION

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

Products have not been tested. Evaluation has been made through data of components.

Skin corrosion/irritation	Based on available data the classification criteria are not met.
Serious eye damage/irritation	Based on available data the classification criteria are not met.
Respiratory or skin sensitisation	Based on available data the classification criteria are not met.
Germ cell mutagenicity	Based on available data the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met. Residual oils (petroleum) contained in product have < 3%. DMSO extract according to IP 346 test method, due to they are not classified as carcinogenic.
Reproductive toxicity	Based on available data the classification criteria are not met.
Information on likely routes of exposure	Inhalation, peroral, dermal and eye contact.
STOT-single exposure	Based on available data the classification criteria are not met.
STOT-repeated exposure	Based on available data the classification criteria are not met.
Aspiration hazard	Based on available data the classification criteria are not met.
Delayed and immediate effects as well as chronic effects from short and long-term exposure	Prolonged or repeated exposure may cause an allergic skin reaction depending on the individual skin sensitivity.
Symptoms related to the physical, chemical and toxicological characteristics	Characteristic symptoms resulting from exposure of product are specified in section 4.2.

Toxicological information on main components of the mixture

Index No CAS No EC No	Name	Acute toxicity
649-471-00-X 64742-62-7 265-166-0	Residual oils (petroleum), solvent-dewaxed	LD50 > 5000 mg/kg bw (rat, oral) LC50/4h > 5.53 ppm (rat, by inhalation) LD50 > 2000 mg/kg bw (rabbit, dermal)

12. ECOLOGICAL INFORMATION

12.1. Toxicity

List of components with eco-toxicological properties

Index No CAS No EC No	Name	Ecotoxicological information
649-471-00-X 64742-62-7 265-166-0	Residual oils (petroleum), solvent-dewaxed	LC50 > 100 mg/l (fish 1) ErC50 > 100 mg/l (algae) EC50 > 100 mg/l (other aquatic organisms 1) NOEC > 1 mg/l (chronic crustacea)
- 68937-96-2 273-103-3	Polysulfides, di-tert-Bu	EC50/48h 63 mg/l (Daphnia magna) EC50/72h > 100 mg/l (algae) EC50/0.1day > 10000 mg/l (sludge)
- - 931-384-6	Reaction products of bis (4 methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	LC50/96h 24 mg/l (Rainbow Trout) LC50/96h 8.5 mg/l (Feated Minnou) EC50/48h 91.4 mg/l (Daphnia magna) EC50/21days 0.66 mg/l (Daphnia magna) NOEC/21days 0.12 mg/l (Daphnia magna) EC50/96h 6.4 mg/l (Selenastrum capricomutum) NOEC/96h 1.7 mg/l (Selenastrum capricomutum) EC50/0.1day 2433 mg/l (talog)
- 7173-62-8 230-528-9	(Z)-N-9-octadecenylpropane-1,3 diamine	LC50/96h > 0.1 - 1 mg/l (Zebra Fish) EC50/48h > 0.01 - 0.1 mg/l (Daphnia magna) NOEC/21days > 0.001 - 0.01 mg/l (Daphnia magna) EC50/72h > 0.01 - 1 mg/l (other)
- 1213789-63-9 627-034-4	(Z)-octadec-9-enylamine, C16 18-(even numbered, saturated and unsaturated)-alkylamines	LC 50/96h 1.3 mg/l (Rainbow Trout) LC 50/96h 0.11 mg/l (Fathead Minnow) LC 50/96h 0.9 mg/l (Sheepshead Minnow) EC50/48h 0.011 mg/l (Daphnia magna) EC50/21days 0.27 mg/l (Daphnia magna) NOEC/21days 0.013 mg/l (Daphnia magna) EC50/72h 0.12 mg/l (algae) NOEC/72h 0.01 mg/l (algae) EC50/0.1day 15.5 mg/l (sludge)

12.2. Persistence and degradability

Index No CAS No EC No	Name	Test	Duration	Value	Result
- 68937-96-2 273-103-3	Polysulfides, di-tert-Bu	OECD TG 301B			13 % after 28 days
- - 931-384-6	Reaction products of bis (4 methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	OECD TG 301B -			7.4 % after 28 days 3.6 after 28 days
- 1213789-63-9 627-034-4	(Z)-octadec-9-enylamine, C16 18-(even numbered, saturated and unsaturated)-alkylamines	OECD TG 301B OECD TG 301D			66 % after 28 days 44 % after 28 days

12.3. Bioaccumulative potential

Index No CAS No EC No	Name	Duration	Value	Bioaccumulation Data
649-471-00-X 64742-62-7 265-166-0	Residual oils (petroleum), solvent-dewaxed			Log Kow > 6 (literature data, potentially bioaccumulative)
- 68937-96-2 273-103-3	Polysulfides, di-tert-Bu			Log Kow: 6 (Measured)
- 1213789-63-9 627-034-4	(Z)-octadec-9-enylamine, C16 18-(even numbered, saturated and unsaturated)-alkylamines			Log Kow: 4.33 (25°C) BCF: 500 (calculated)

12.4. Mobility in soil

Known or predicted distribution to environmental compartments	No data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	The mixture contains no components considered to be PBT/vPvB at levels of 0.1% or higher.

12.6. Endocrine disrupting properties

Endocrine disrupting properties	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

Other adverse effects	No data available.

12.8. Additional information

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product/Packaging disposal	Where possible avoid waste accumulation or reduce it to minimum. Dispose of unused product in compliance with applicable local regulations.
Waste treatment-relevant information	Treat and dispose of contaminated packaging in compliance with applicable local regulations. Waste code: 13 02 05* - mineral-based non-chlorinated engine, gear and lubricating oils (categorization of waste is the responsibility of users).

14. TRANSPORT INFORMATION

14.1. UN number or ID number

UN number or ID number	Not applicable.

14.2. UN proper shipping name

UN proper shipping name	Not applicable.

14.3. Transport hazard class(es)

Transport hazard class(es)	Not applicable.

14.4. Packing group

Packing group	Not applicable.

14.5. Environmental hazards

Environmental hazards	Not applicable.

14.6. Special precautions for user

Special precautions for user	Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk according to IMO instruments	Not applicable.

15. REGULATORY INFORMATION

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

EU regulations	Commission Regulation (EU) No 878/2020 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Commision Regulation (EU) No 830/2015 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning. The Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC Regulation (EC) No 1907/2006, Annex XVII (the substances subject to restriction on marketing and use): none present Regulation (EC) No 1907/2006, Article 59 (the substances on Candidate List): none present Regulation (EC) No 1907/2006, Annex XIV (the substances subject to authorisation): none present

15.2. Chemical Safety Assessment

Chemical Safety Assessment	No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

16. OTHER INFORMATION

Other information	Version / Revision: 2/1. Revision information: Section 1.3 Details of the supplier of the safety data sheet Section 2.1 Information of classification of the substance or mixture Section 2.2 Information of label elements Section 3.2 Information on ingredients of the mixture Section 6.1 Information of personal precautions, protective equipment and emergency procedures Section 8.1 Information of Occupational exposure limits Section 11.1 Name, Index No, CAS No, EC No of substances in the mixture (product) Section 11.2 Information of Endocrine disrupting properties Section 12 Name, Index No, CAS No, EC No of substances in the mixture (product) Section 12.6 Information of Endocrine disrupting properties Section 15.1 Information of Safety health and environmental regulations/legislation List of abbreviations and acronyms: Asp. Tox. 1 - Aspiration hazard, Category 1 Acute Tox. 4 - Acute Toxicity, Category 4 Eye Dam. 1 - Serious eye damage/eye irritation, Category 1 Eye Irrit. 2 - Serious eye damage/eye irritation, Category 2 Skin Sens. 1B - Skin sensitization, Category 1B Skin Corr. 1B - Skin corrosion/irritation, Category 1B STOT SE 3 - Specific target organ toxicity - single exposure, Category 3 STOT RE 2 - Specific target organ toxicity - repeated exposure, Category 2 STOT RE 1 - Specific target organ toxicity - repeated exposure, Category 1 Aquatic Acute 1 - Hazardous to the aquatic environment, Acute, Category 1 Aquatic Chronic 1 - Hazardous to the aquatic environment, Chronic, Category 1 Aquatic Chronic 2 - Hazardous to the aquatic environment, Chronic, Category 2 Aquatic Chronic 3 - Hazardous to the aquatic environment, Chronic, Category 3 OEL - Occupational Exposure Limit SCBA - Self Contained Breathing Apparatus TWA - Time Weighted average (frequent long-term exposure over 8-hour work day) DNEL - Derived No Effect Level PNEC - Predicted No Effect Concentration STP - Sewage Treatment Plant LD50 - Lethal dose 50 (Lethal dose 50 is a substance dose which is lethal to 50% of tested animals) bw - Body weight LC50 - Lethal concentration 50 (Lethal concentration 50 is the concentration which is lethal to 50% of tested animals) EC50 - Median effective concentration (Median effective concentration means the effective concentration of substance in the environment which produces a specific effect to 50% of tested organisms under a defined set of conditions) ErC50 - Median Effective Concentration (EC50 (growth rate)) NOEC - No Observable Effect Concentration (a maximum dose not producing a harmful effect) Log Kow - partition coefficient n-octanol/water BCF - Bioaccumulation factor OECD - Organisation for Economic Co-operation and Development PBT - Persistent, bioaccumulative and toxic substance vPvB - Very persistent and very bioaccumulative substance ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road RID - International Rule for Transport of Dangerous Substances by Railway ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways IMDG - International Maritime Dangerous Goods ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air Basic literature and sources: Safety Data Sheet of components. www.echa.europa.eu List of hazard statements and the associated full text: H302 - Harmful if swallowed. H304 - May be fatal if swallowed and enters airways. H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H372 - Causes damage to organs through prolonged or repeated exposure. H373 - May cause damage to organs trough prolonged or repeated exposure. H400 - Very toxic to aquatic life. H410 - Very toxic to aquatic life with long lasting effects. H411 - Toxic to aquatic life with long lasting effects. H412 - Harmful to aquatic life with long lasting effects. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]: Calculation method. Training advice: Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information. Other Information: The information provided herein is correct to our up-to-date knowledge. The product must not be used for any purposes other than specified herein. We shall not accept any liability in case of noncompliance with this Safety Data Sheet.