Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.11.2021 *Version number 3 (replaces version 2)* *Revision: 01.12.2020*

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

· **1.1 Product identifier**

· **Trade name: Hengst Fuel System Cleaner**

· **Article number:** 30614,174
· **UFI:** 4J60-N07D-7005-32R2
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
· **Sector of Use** Kraftstoffsystemreiniger
· **Application of the substance / the mixture**
Additive
Kraftstoffsystemreiniger

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Hengst SE
Nienkamp 55-85
48147 Münster
Germany

T +49 (0)251 20 20 2-0
F +49 (0)251 20 20 2-646

· **Further information obtainable from:** oil@hengst.com
· **1.4 Emergency telephone number:**
Informationszentrale gegen Vergiftungen Uni - Klinikum Bonn; Notfall - Nr.: +49 228 19 240

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**

GHS02 flame

Flam. Liq. 2	H225	Highly flammable liquid and vapour.

GHS08 health hazard

STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.

GHS07

Acute Tox. 4	H332	Harmful if inhaled.
Skin Irrit. 2	H315	Causes skin irritation.

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Eye Irrit. 2	*H319*	*Causes serious eye irritation.*
STOT SE 3	*H335-H336*	*May cause respiratory irritation. May cause drowsiness or dizziness.*
Aquatic Chronic 3	*H412*	*Harmful to aquatic life with long lasting effects.*

· ***2.2 Label elements***
· ***Labelling according to Regulation (EC) No 1272/2008***
The product is classified and labelled according to the CLP regulation.
· ***Hazard pictograms***

GHS02 GHS07 GHS08

· ***Signal word*** *Danger*

· ***Hazard-determining components of labelling:***
Naphtha (petroleum), hydrotreated heavy
acetone
propan-2-ol
Distillates (petroleum), hydrotreated light
· ***Hazard statements***

H225	*Highly flammable liquid and vapour.*
H332	*Harmful if inhaled.*
H315	*Causes skin irritation.*
H319	*Causes serious eye irritation.*
H335-H336	*May cause respiratory irritation. May cause drowsiness or dizziness.*
H373	*May cause damage to organs through prolonged or repeated exposure.*
H304	*May be fatal if swallowed and enters airways.*
H412	*Harmful to aquatic life with long lasting effects.*

· ***Precautionary statements***

P101	*If medical advice is needed, have product container or label at hand.*
P102	*Keep out of reach of children.*
P210	*Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*
P260	*Do not breathe mist/vapors/spray.*
P271	*Use only outdoors or in a well-ventilated area.*
P301+P310	*IF SWALLOWED: Immediately call a POISON CENTER/ doctor.*
P331	*Do NOT induce vomiting.*
P405	*Store locked up.*
P501	*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· ***2.3 Other hazards***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*

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· ***vPvB:*** *Not applicable.*

SECTION 3: Composition/information on ingredients

· ***3.1 Substances***
· ***CAS No. Description***
Not applicable
· ***Identification number(s)*** *Not applicable*
· ***3.2 Mixtures***
· ***Description:*** *Mixture of substances listed below with nonhazardous additions.*

· ***Dangerous components:***

CAS: 1330-20-7 *EINECS: 215-535-7* *Index number: 601-022-00-9*	*xylene* *Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315*	*25-50%*
CAS: 67-64-1 *EINECS: 200-662-2* *Index number: 606-001-00-8*	*acetone* *Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066*	*10-25%*
CAS: 67-63-0 *EINECS: 200-661-7* *Index number: 603-117-00-0*	*propan-2-ol* *Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336*	*10-25%*
CAS: 64742-48-9 *EINECS: 265-150-3* *Index number: 649-327-00-6*	*Naphtha (petroleum), hydrotreated heavy* *Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 3, H412*	*10-25%*
CAS: 37205-87-1	*poly(oxy-1,2-ethanediyl), α-(isononylphenyl)-ω-hydroxy-* *Skin Irrit. 2, H315; Eye Irrit. 2, H319*	*2.5-10%*
	Poly(oxy(1,2-butanediyl)), .alpha.-(3-aminopropyl)-.gamma.-hydroxy-, C11-14-isoalkyl ethers, C13-rich (Polyetheramine) *Aquatic Chronic 2, H411*	*≤1%*

· ***SVHC***
CAS: 37205-87-1 poly(oxy-1,2-ethanediyl), α-(isononylphenyl)-ω-hydroxy-
· ***Additional information:*** *For the wording of the listed hazard phrases refer to section 16.*

SECTION 4: First aid measures

· ***4.1 Description of first aid measures***
· ***General information:***
Take affected persons out into the fresh air.
Keep quiet and cover.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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· ***After inhalation:***
Seek medical treatment in case of complaints.
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
· ***After skin contact:***
Soak up clothes, even underwear, shoes and stockings, take off immediately.
Then rinse with: water and soap.
Immediately wash with water and soap and rinse thoroughly.
· ***After eye contact:***
Seek medical treatment.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· ***After swallowing:*** *If symptoms persist consult doctor.*
· ***4.2 Most important symptoms and effects, both acute and delayed***
Frequent and prolonged skin contact may cause skin irritation.
Eye irritation: irritation possible.
After swallowing: Harmful: may cause lung damage if swallowed.
Harmful: danger of serious damage to health by prolonged exposure through inhalation.
· ***4.3 Indication of any immediate medical attention and special treatment needed***
Warning of aspiration hazard.

SECTION 5: Firefighting measures

· ***5.1 Extinguishing media***
· ***Suitable extinguishing agents:*** *CO2, sand, extinguishing powder. Do not use water.*
· ***For safety reasons unsuitable extinguishing agents:***
Water with full jet
Not applicable
· ***5.2 Special hazards arising from the substance or mixture***
In case of fire, the following can be released:
Emergence of dangerous decomposition products possible.
Do not inhale explosion or combustion gases.
· ***5.3 Advice for firefighters***
· ***Protective equipment:***
Mouth respiratory protective device.
Wear self-contained respiratory protective device.
· ***Additional information***
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

· ***6.1 Personal precautions, protective equipment and emergency procedures***
Keep away from ignition sources.

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Wear protective equipment. Keep unprotected persons away.
Keep people at a distance and stay on the windward side.

· **6.2 Environmental precautions:**
Suppress gases/fumes/haze with water spray.
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

· **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 disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Ensure that suitable extractors are available on processing machines
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

· **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**
Keep container tightly closed and store in a cool, well-ventilated place.
Store in a cool location.

· **Information about storage in one common storage facility:** Store away from oxidising agents.

· **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Storage in a collecting room is required.

· **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**
· **Ingredients with limit values that require monitoring at the workplace:**
CAS: 1330-20-7 xylene
IOELV Short-term value: 442 mg/m³, 100 ppm
Long-term value: 221 mg/m³, 50 ppm
Skin
CAS: 67-64-1 acetone
IOELV Long-term value: 1210 mg/m³, 500 ppm
· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**
· **Appropriate engineering controls** No further data; see item 7.
· **Individual protection measures, such as personal protective equipment**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
· **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
· **Hand protection**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Not suitable are gloves made of the following materials:** Leather gloves

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· ***Eye/face protection***

Tightly sealed goggles

SECTION 9: Physical and chemical properties

· ***9.1 Information on basic physical and chemical properties***

· ***General Information***	
· ***Physical state***	*Fluid*
· ***Colour:***	*Red*
· ***Odour:***	*Aromatic*
· ***Odour threshold:***	*Not determined.*
· ***Melting point/freezing point:***	*Undetermined.*
· ***Boiling point or initial boiling point and boiling range***	*110 °C (DIN 51751)*
· ***Flammability***	*Not applicable.*
· ***Lower and upper explosion limit***	
· ***Lower:***	*0.6 Vol % (DIN EN 1839)*
· ***Upper:***	*12 Vol % (DIN EN 1839)*
· ***Flash point:***	*-6 °C (DIN ISO 2592)*
· ***Auto-ignition temperature:***	*Not determined.*
· ***Decomposition temperature:***	*Not determined.*
· ***pH***	*Not determined.*
· ***Viscosity:***	
· ***Kinematic viscosity***	*Not determined.*
· ***Dynamic:***	*Not determined.*
· ***Solubility***	
· ***water:***	*Not miscible or difficult to mix.*
· ***Partition coefficient n-octanol/water (log value)***	*Not determined.*
· ***Vapour pressure at 20 °C:***	*20 hPa*
· ***Density and/or relative density***	
· ***Density at 20 °C:***	*0.78-0.82 g/cm³ (DIN 51757)*
· ***Relative density***	*Not determined.*
· ***Vapour density***	*Not determined.*

· ***9.2 Other information***

· ***Appearance:***	
· ***Form:***	*Fluid*
· ***Important information on protection of health and environment, and on safety.***	
· ***Ignition temperature:***	*425 °C (DIN 14522)*

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· **Explosive properties:**	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· **Solvent content:**	
· **Organic solvents:**	73.0 %
· **Change in condition**	
· **Softening point/range**	
· **Pour point**	Not applicable
· **Evaporation rate**	Not determined.
· **Information with regard to physical hazard classes**	
· **Explosives**	Void
	Void
· **Flammable gases**	Void
	Void
· **Aerosols**	Void
	Void
· **Oxidising gases**	Void
	Void
· **Gases under pressure**	Void
	Void
· **Flammable liquids**	Highly flammable liquid and vapour.
	Void
· **Flammable solids**	Void
	Void
· **Self-reactive substances and mixtures**	Void
	Void
· **Pyrophoric liquids**	Void
	Void
· **Pyrophoric solids**	Void
	Void
· **Self-heating substances and mixtures**	Void
	Void
· **Substances and mixtures, which emit flammable gases in contact with water**	Void
	Void
· **Oxidising liquids**	Void
	Void
· **Oxidising solids**	Void
	Void
· **Organic peroxides**	Void
	Void
· **Corrosive to metals**	Void
	Void

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· **Desensitised explosives** Void
Void

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **10.3 Possibility of hazardous reactions** Reacts with strong oxidising agents.
· **10.4 Conditions to avoid**
Heat sources (flash over temperature), sparks, ignition points, open flames, static electricity.
· **10.5 Incompatible materials:** Alkalis (alkalis), concentrated.
· **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity** Harmful if inhaled.
· **LD/LC50 values relevant for classification:**

CAS: 1330-20-7 xylene

Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)

CAS: 67-64-1 acetone

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)

CAS: 67-63-0 propan-2-ol

Oral	LD50	5,045 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

CAS: 64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>3,000 mg/kg (rabbit)

CAS: 64742-47-8 Distillates (petroleum), hydrotreated light

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

CAS: 37205-87-1 poly(oxy-1,2-ethanediyl), α-(isononylphenyl)-ω-hydroxy-

Oral	LD50	>2,000 mg/kg (rat)

· **Skin corrosion/irritation** Causes skin irritation.
· **Serious eye damage/irritation** Causes serious eye irritation.
· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

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· ***Germ cell mutagenicity*** *Based on available data, the classification criteria are not met.*
· ***Carcinogenicity*** *Based on available data, the classification criteria are not met.*
· ***Reproductive toxicity*** *Based on available data, the classification criteria are not met.*
· ***STOT-single exposure*** *May cause respiratory irritation. May cause drowsiness or dizziness.*
· ***STOT-repeated exposure*** *May cause damage to organs through prolonged or repeated exposure.*
· ***Aspiration hazard*** *May be fatal if swallowed and enters airways.*
· ***11.2 Information on other hazards***
· ***Endocrine disrupting properties***
None of the ingredients is listed.

SECTION 12: Ecological information

· ***12.1 Toxicity***
· ***Aquatic toxicity:*** *No further relevant information available.*
· ***12.2 Persistence and degradability*** *The contained surfactants are biodegradable*
· ***Degree of elimination:***
CAS: 64742-47-8 Distillates (petroleum), hydrotreated light
EC50 >1,000 mg/kg (SwF)
· ***12.3 Bioaccumulative potential*** *No further relevant information available.*
· ***12.4 Mobility in soil*** *No further relevant information available.*
· ***12.5 Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*
· ***12.6 Endocrine disrupting properties*** *For information on endocrine disrupting properties see section 11.*
· ***12.7 Other adverse effects***
· ***Additional ecological information:***
· ***General notes:***
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

· ***13.1 Waste treatment methods***
· ***Recommendation***
Must be specially treated adhering to official regulations.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Delivery of waste oil to offically authorised collectors only.
· ***European waste catalogue***
07 07 04 other organic solvents, washing liquids and mother liquors*

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· **Uncleaned packaging:**
· **Recommendation:**
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

SECTION 14: Transport information

· **14.1 UN number or ID number**
· **ADR, IMDG, IATA** UN1993
· **14.2 UN proper shipping name**
· **ADR** 1993 ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G. (ACETON, ISOPROPANOL (ISOPROPYLALKOHOL))
· **IMDG, IATA** FLAMMABLE LIQUID, N.O.S. (ACETONE, ISOPROPANOL (ISOPROPYL ALCOHOL))
· **14.3 Transport hazard class(es)**
· **ADR, IMDG, IATA**

· **Class** 3 Flammable liquids.
· **Label** 3
· **14.4 Packing group**
· **ADR, IMDG, IATA** II
· **14.5 Environmental hazards:**
· **Marine pollutant:** No
· **14.6 Special precautions for user** Warning: Flammable liquids.
· **Hazard identification number (Kemler code):** 33
· **EMS Number:** F-E,S-E
· **Stowage Category** B
· **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
· **Transport/Additional information:**
· **ADR**
· **Limited quantities (LQ)** 1L
· **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
· **Transport category** 2
· **Tunnel restriction code** D/E

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· ***IMDG***	
· ***Limited quantities (LQ)***	*1L*
· ***Excepted quantities (EQ)***	*Code: E2* *Maximum net quantity per inner packaging: 30 ml* *Maximum net quantity per outer packaging: 500 ml*
· ***UN "Model Regulation":***	*UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONE, ISOPROPANOL (ISOPROPYL ALCOHOL)), 3, II*

SECTION 15: Regulatory information

· ***15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture***
· ***Labelling according to Regulation (EC) No 1272/2008***
The product is classified and labelled according to the CLP regulation.
· ***Hazard pictograms***

GHS02 GHS07 GHS08

· ***Signal word*** *Danger*

· ***Hazard-determining components of labelling:***
Naphtha (petroleum), hydrotreated heavy
acetone
propan-2-ol
Distillates (petroleum), hydrotreated light
· ***Hazard statements***
H225 Highly flammable liquid and vapour.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.
· ***Precautionary statements***
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331 Do NOT induce vomiting.

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P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Seveso category** P5c FLAMMABLE LIQUIDS
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
· **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**
CAS: 37205-87-1 poly(oxy-1,2-ethanediyl), α-(isononylphenyl)-ω-hydroxy-: Sunset date: 2021-01-04
· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
· **Regulation (EU) No 649/2012**
CAS: 37205-87-1 poly(oxy-1,2-ethanediyl), α-(isononylphenyl)-ω-hydroxy-: Annex I Part 1
Annex I Part 2
· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
None of the ingredients is listed.

· **National regulations:**

· **Other regulations, limitations and prohibitive regulations**
· **Substances of very high concern (SVHC) according to REACH, Article 57**
CAS: 37205-87-1 poly(oxy-1,2-ethanediyl), α-(isononylphenyl)-ω-hydroxy-
· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 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.

· **Relevant phrases**
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

· **Department issuing SDS:** Product safety
· **Version number of previous version:** 2

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· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
· **Sources** Concawe Product Dossier No.97/108. Concawe Product Dossier Nn. 01/54.