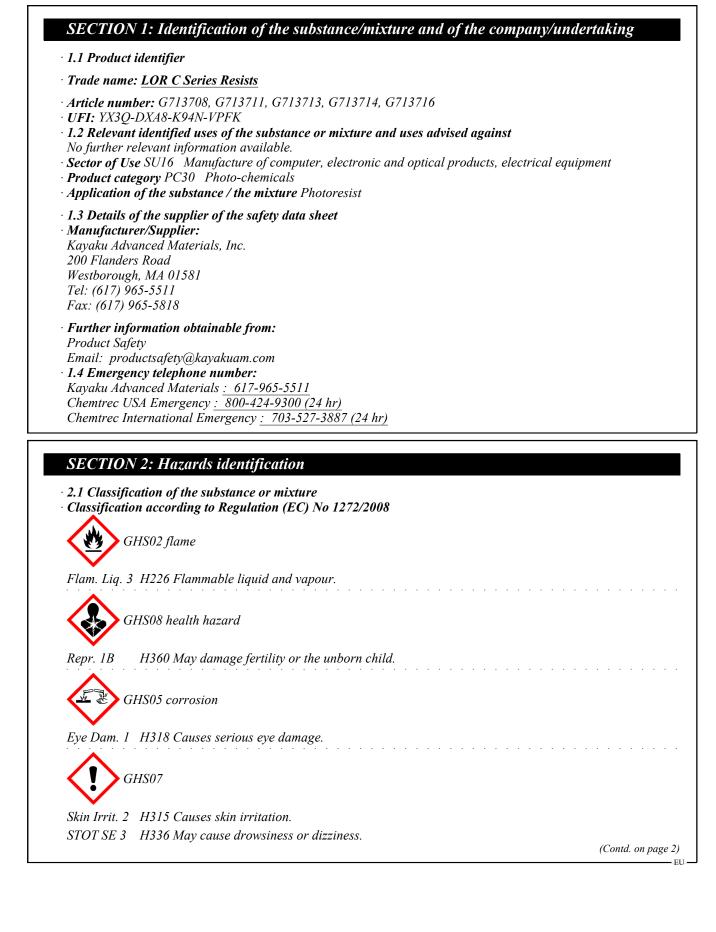
ADVANCED MATERIALS

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 23.06.2025

Revision: 23.06.2025



KAYAKU® ADVANCED MATERIALS

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Version number 9 (replaces version 8)

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	(Contd. of page
2.2 Label eleme	
	ding to Regulation (EC) No 1272/2008
	lassified and labelled according to the CLP regulation.
Hazard pictogra	IMS
$\land$	$\wedge \wedge \wedge$
GHS02 GHS	605 GHS07 GHS08
Signal word Da	nger
	ning components of labelling:
gamma-Butyrol	
Tetrahydrofurfu	
Hazard stateme	
	le liquid and vapour.
H315 Causes sk	
	rious eye damage.
	age fertility or the unborn child.
	e drowsiness or dizziness.
Precautionary s	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. I smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER doctor.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position
	comfortable for breathing.
P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
	present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use to extinguish: Alcohol resistant foam, Fire-extinguishing powder, Carbo
	dioxide.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/internation
	regulations.
Additional info	
Restricted to pro	
2.3 Other hazar	
<b>Results of PBT</b>	and vPvB assessment
PBT: Not applie	
vPvB: Not appli	
11	of endocrine-disrupting properties
	edients are included in the list established in accordance with Article 59(1) for having endocri
disrupting prope	
	redients are substances identified as having endocrine disrupting properties in accordance wi
	out in Commission Delegated Regulation (EU) 2017/2100 (or Commission Regulation (EU)
the criteria set	SWE IN COMMISSION DEVELOPMENT RECEIVENDING (ENT 2017/2100 TOT COMMISSION REPAILMENT TH

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#### **SECTION 3: Composition/information on ingredients**

· 3.2 Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

CAS: 120-92-3	Cyclopentanone	10-40%
EINECS: 204-435-9 Index number: 606-025-00-9 Reg.nr.: 01-2119495595-21-0000	🛞 Flam. Liq. 3, H226; 🚸 Skin Irrit. 2, H315; Eye Irrit. 2, H319	_
CAS: 96-48-0	gamma-Butyrolactone	5-20%
EINECS: 202-509-5	♦ Eye Dam. 1, H318; ♦ Acute Tox. 4, H302; STOT SE 3, H336	-
CAS: 102322-80-5	Polyaliphatic imide copolymer	40-80%
	🚯 Skin Irrit. 2, H315; Eye Irrit. 2, H319	-
CAS: 97-99-4	Tetrahydrofurfuryl alcohol	1-5%
EINECS: 202-625-6 Index number: 603-061-00-7	� Repr. 1B, H360;	-
	Proprietary Dye B	<1%
	() Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	-

Auditional information. For the working of the fisted huzard phrases refer to sect

#### **SECTION 4:** First aid measures

• 4.1 Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

• After skin contact: Immediately wash with water and soap and rinse thoroughly.

• After eye contact:

Wash eyes immediately with a large amount of water or normal saline, occasionally lifting upper and lower eye lids until no evidence of chemical remains (about 20 minutes). Remove contact lenses if present and easy to remove. Seek immediate medical attention.

- After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed Treat symptomatically.

### **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

• Suitable extinguishing agents:

Alcohol resistant foam

Fire-extinguishing powder

Carbon dioxide

 $\cdot$  For safety reasons unsuitable extinguishing agents: Water with full jet

• 5.2 Special hazards arising from the substance or mixture No further relevant information available.

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· 5.3 Advice for firefighters

· Protective equipment: Wear self-contained respiratory protective device.

#### **SECTION 6:** Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources.
  6.2 Environmental precautions: 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). 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 good ventilation/exhaust at the workplace. Prevent formation of aerosols.

Use only under yellow light

- *Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.*
- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and containers: Store in a cool location.
   Store in inert atmosphere or keep well sealed to prevent the formation of peroxides and other oxidation products.
   Information about storage in one common storage facility:
- Do not store together with alkalis (caustic solutions). Do not store together with oxidising and acidic materials.
- Further information about storage conditions: Store in cool, dry conditions in well sealed containers. Protect from heat and direct sunlight. Store receptacle in a well ventilated area.
- · 7.3 Specific end use(s) No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- · 8.1 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.

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(Contd. of page 4) • Additional information: The lists valid during the making were used as basis. · 8.2 Exposure controls • Appropriate engineering controls No further data; see section 7. · Individual protection measures, such as personal protective equipment • General protective and hygienic measures: Keep away from food and beverages. 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 low exposure use cartridge respirator. 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. · Material of gloves Nitrile rubber, NBR · 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/face protection Tightly sealed goggles · Body protection: Long-sleeved work clothes

#### **SECTION 9: Physical and chemical properties** • 9.1 Information on basic physical and chemical properties · General Information · Physical state Liquid · Colour: Yellow-brown · Odour: Sweetish Not determined. • Odour threshold: • *Melting point/freezing point:* Undetermined. · Boiling point or initial boiling point 130 °C and boiling range · Flammability *Not applicable.* · Lower and upper explosion limit 2.7 Vol % · Lower: 15.6 Vol % · Upper: 30 °C · Flash point: • Auto-ignition temperature: 430 °C • Decomposition temperature: Not determined. Not determined. ∙pH (Contd. on page 6)

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Viscosity:			
Kinematic viscosity	Not determined.		
Dynamic:	Not determined.		
Solubility			
water:	Insoluble.		
Partition coefficient n-octanol/water			
(log value)	Not determined.		
Vapour pressure at 20 °C:	1 hPa		
Density and/or relative density			
Density:	Not determined		
Relative density	See Other information		
Vapour density	Not determined.		
9.2 Other information	Name Number Sp. Grav. VOC(%by wt.) VOC(g/L)		
U U	LOR 5C G713708 1.0207 35-40 400		
	LOR 10C G713711 1.0296 25-30 300		
	LOR 15C G713713 1.0346 20-25 240		
	LOR 20C G713714 1.0383 15-20 200		
	LOR 30C G713716 1.0418 10-15 140		
Appearance:			
Form:	Liquid		
Important information on protection og	f		
health and environment, and on safety.			
Ignition temperature:	Product is not selfigniting.		
Explosive properties:	<i>Product is not explosive. However, formation of explosive air/vapo mixtures are possible.</i>		
Change in condition	-		
Change in condition			
Evaporation rate	Not determined.		
Evaporation rate Information with regard to physical	Not determined.		
Evaporation rate Information with regard to physical hazard classes			
Evaporation rate Information with regard to physical hazard classes Explosives	Not applicable.		
Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases	Not applicable. Not applicable.		
Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols	Not applicable. Not applicable. Not applicable.		
Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases	Not applicable. Not applicable. Not applicable. Not applicable.		
Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.		
Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids	Not applicable. Not applicable. Not applicable. Not applicable.		
Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.		
Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Flammable liquid and vapour. Not applicable. Not applicable.		
Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Flammable liquid and vapour. Not applicable.		
Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Flammable liquid and vapour. Not applicable. Not applicable.		
Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids	Not applicable. Not applicable. Not applicable. Not applicable. Flammable liquid and vapour. Not applicable. Not applicable. Not applicable. Not applicable.		
Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures	Not applicable. Not applicable. Not applicable. Not applicable. Flammable liquid and vapour. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.		
Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids	Not applicable. Not applicable. Not applicable. Not applicable. Flammable liquid and vapour. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.		
Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit	Not applicable. Not applicable. Not applicable. Not applicable. Flammable liquid and vapour. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.		
Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids	Not applicable. Not applicable. Not applicable. Not applicable. Flammable liquid and vapour. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.		
Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water	Not applicable. Not applicable. Not applicable. Not applicable. Stammable liquid and vapour. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.		
Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids Oxidising solids	Not applicable. Not applicable. Not applicable. Not applicable. Flammable liquid and vapour. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.		

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#### SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

• 10.2 Chemical stability Stable

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

Contact with incompatible materials.

• 10.5 Incompatible materials: Strong Oxidizing Agents, Strong Acids, Strong Bases

• 10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide Hydrocarbons Nitrogen oxides (NOx)

# SECTION 11: Toxicological information

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

• Acute toxicity Based on available data, the classification criteria are not met.

HD/HCCO	runes rere	van jor classification.
120-92-3 (	Cyclopenta	none
Oral	LD50	1180 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4 h	>19.5 mg/l (Rat)
96-48-0 ga	imma-Buty	vrolactone
Oral	LD50	1540 mg/kg (Rat)
Dermal	LD50	5000 mg/kg (gui)
Inhalative	LC50/4 h	>5.1 mg/l (Rat)
97-99-4 Te	etrahydrofi	urfuryl alcohol
Oral	LD50	1600 mg/kg (Rat)
Primary ir	ritant effe	ct:
· Skin corro		
Causes ski	n irritation	1.
· Serious ey	e damage/	irritation
Causes ser	ious eye da	amage.
Respirator	y or skin s	ensitisation Based on available data, the classification criteria are not met.
Germ cell	mutagenic	ity Based on available data, the classification criteria are not met.
Carcinoge	nicity Base	ed on available data, the classification criteria are not met.
· Reproduct	ive toxicity	,
May dama	ge fertility	or the unborn child.
STOT-sing		
May cause	drowsines	as or dizziness.
· STOT-rep	eated expo	sure Based on available data, the classification criteria are not met.
		ased on available data, the classification criteria are not met.
		nans: No further relevant information available.

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#### · 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

#### **SECTION 12: Ecological information**

#### · 12.1 Toxicity

• Aquatic toxicity:

120-92-3 Cyclopentanone

EC50/48 h 100 mg/l (daphnia magna)

EC50/72 h >100 mg/l (scenedesmus subspicatus)

LC50/96 h > 100 mg/l (fish)

96-48-0 gamma-Butyrolactone

*EC50/17 h* >10000 mg/l (bacterium)

EC50/48 h >500 mg/l (daphnia magna)

EC50/72 h 360 mg/l (green algae)

LC50/96 h >220 - <460 mg/l (golden orfe)

· 12.2 Persistence and degradability No further relevant information available.

• 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

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Disposal must be made in accordance with International, National, and regional regulations.

· Uncleaned packaging:

• *Recommendation: Disposal must be made according to official regulations.* 

## SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA

UN1866

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· 14.2 UN proper shipping name · ADR, IMDG, IATA	RESIN SOLUTION
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
· ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Flammable liquids.
• Hazard identification number (Kemler code):	30
• EMS Number:	<i>F-E</i> , <u><i>S-E</i></u>
• 14.7 Maritime transport in bulk according to IM	10
instruments	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Transport category	3
• Tunnel restriction code	D/E
· UN "Model Regulation":	UN1866, RESIN SOLUTION, 3, III

### **SECTION 15: Regulatory information**

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

· Directive 2012/18/EU

• 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

• **REGULATION (EC)** No 1907/2006 ANNEX XVII Conditions of restriction: 3, 30

• 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.

· REGULATION (EU) 2019/1148

• Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

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· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

• 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

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H360 May damage fertility or the unborn child.

· Classification according to Regulation (EC) No 1272/2008

Art. 9(1) of Regulation (EC) No. 1272/2008 was used for classification purposes.

- · Department issuing SDS: Product safety department
- · Contact: Tom Cole, EHS Manager (tcole@kayakuam.com)

· Revision History:

The manufacturer's information in Section 1, the product hazard information in Section 2 and the component hazard information in Section 3 have been updated.

• Version number of previous version: 8

• 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) LCSO: Lathel encountering of Department.

*LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent* 

*PBT: Persistent, Bioaccumulative and Toxic* 

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2* 

Repr. 1B: Reproductive toxicity – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

EU -