ADVANCED MATERIALS

Safety data sheet

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

Printing date 13.12.2024

Revision: 13.12.2024

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

· 1.1 Product identifier

• Trade name: LOR B Series Resists

• Article number:

G316702, G316703, G316704, G316707, G316708, G316709, G316710, G316711, G316712, G316715, G316716, G316719

- · UFI: 1ERC-1CKK-1CCG-SJ4H
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Sector of Use SU16 Manufacture of computer, electronic and optical products, electrical equipment
- · Product category PC30 Photo-chemicals
- · Application of the substance / the mixture Photoresist
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier: Kayaku Advanced Materials, Inc. 200 Flanders Road Westborough, MA 01581 Tel: (617) 965-5511 Fax: (617) 965-5818
- · Further information obtainable from: Product Safety Email: productsafety@kayakuam.com 1.4 Emergency telephone number:
- Kayaku Advanced Materials : 617-965-5511 Chemtrec USA Emergency : 800-424-9300 (24 hr) Chemtrec International Emergency: 703-527-3887 (24 hr)

SECTION 2: Hazards identification

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

GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

GHS07

Skin Irrit. 2 H315 Causes skin irritation. *Eye Irrit.* 2 H319 Causes serious eye irritation.

· 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



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	(Contd. of page 1)
• Signal word Wa	urning
• Hazard stateme	<i>ints</i>
H226 Flammab	le liquid and vapour.
H315 Causes sk	cin irritation.
H319 Causes se	rious eye irritation.
· Precautionary s	statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe 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	<i>IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.</i>
P305+P351+P.	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash 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, Carbon dioxide.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
• 2.3 Other hazar • Results of PBT	rds and vPvB assessment

- *PBT:* Not applicable.
- **vPvB:** Not applicable.
- Determination of endocrine-disrupting properties

None of the ingredients are included in the list established in accordance with Article 59(1) for having endocrine disrupting properties.

None of the ingredients are substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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

CAS: 120-92-3	Cyclopentanone	65-85%
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: 102322-80-5	Polyaliphatic imide copolymer	1-20%
	🚯 Skin Irrit. 2, H315; Eye Irrit. 2, H319	-
CAS: 107-98-2	1-methoxy-2-propanol	10-15%
EINECS: 203-539-1	🚸 Flam. Liq. 3, H226; 🚸 STOT SE 3, H336	1
Index number: 603-064-00-3	• · · · · · · · · · · · · · · · · · · ·	
	Proprietary Dye B	0.25-2%
	• Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	1
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• Additional information: For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- 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

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture

Containers may explode due to pressure increase when container is exposed to extreme heat. Vapors may travel a considerable distance to a source of ignition and flash back along vapor trail.

- 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.

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ar ca		
SECI	TION 7: Handling and storage	
Ensure Preven Keep a Use on • Inform Keep ig	ecautions for safe handling good ventilation/exhaust at the workplace. et formation of aerosols. way from heat and direct sunlight. ly under yellow light mation about fire - and explosion protection: gnition sources away - Do not smoke. plosion-proof apparatus / fittings and spark-proof tools.	
-	t against electrostatic charges.	
· 7.2 Cor	nditions for safe storage, including any incompatibilities	
· Storage		
	ements to be met by storerooms and containers:	
	n a cool location.	
	photo-sensitivity, store product in brown-glass or stainless steel receptacles. nation about storage in one common storage facility:	
	store together with oxidising and acidic materials.	
	store together with alkalis (caustic solutions).	
	er information about storage conditions:	
	n cool, dry conditions in well sealed containers.	
	eceptacle in a well ventilated area.	
	t from heat and direct sunlight. e cific end use(s) No further relevant information available.	
SEC7	FION 8: Exposure controls/personal protection	
. 8 1 Car	ntrol parameters	
	lients with limit values that require monitoring at the workplace:	
	3-2 1-methoxy-2-propanol	
IOELV	7 Short-term value: 568 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm	
	Skin	
· Additio	conal information: The lists valid during the making were used as basis.	
	posure controls	
	priate engineering controls No further data; see section 7. lual protection measures, such as personal protective equipment	
	al protective and hygienic measures:	
	way from food and beverages.	
	iately remove all soiled and contaminated clothing	
Wash h	hands before breaks and at the end of work.	
Avoid	contact with the eves and skin	

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.

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· 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

• General Information • Physical state	Liquid	
· Colour:	Yellow-brown	
· Colour: · Odour:	Sweetish	
0.00000		
• Odour threshold:	Not determined.	
Melting point/freezing point:	Undetermined.	
Boiling point or initial boiling po		
and boiling range	120 °C	
· Flammability	Not applicable.	
· Lower and upper explosion limit		
· Lower:	2.3 Vol %	
· Upper:	Not determined.	
· Flash point:	30 °C	
• Auto-ignition temperature:	270 °C	
• 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/wa		
(log value)	Not determined.	
· Vapour pressure at 20 °C:	12 hPa	
· Density and/or relative density		
• Density:	See Other information	



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Vapour density	Not detern	ined.			(Contd. of pag		
9.2 Other information	Name	Number	Sp. Grav.	VOC(%by wt.)	VOC(g/L)		
.2 Omer ingormation	LOR 0.7B		0.947	98	925		
	LOR 1B	G316703	0.952	96	915		
	LOR 1D LOR 2B	G316704	0.955	95	910		
	LOR 3B	G316707	0.961	93	900		
	LOR 5B	G316708	0.966	92	890		
	LOR 5B	G316709	0.967	91	885		
	LOR 0B	G316710	0.969	91	880		
	LOR 10B	G316711	0.909	89	870		
	LOR 15B	G316712	0.978	88	860		
	LOR 20B	G316715	0.985	86	850		
	LOR 30B	G316716	0.987	85	840		
4	LOR 50B	G316719	0.998	82	815		
Appearance:	T · · · 1						
Form:	Liquid						
Important information on protection of							
health and environment, and on safety.		10					
Ignition temperature:		not selfignt			a i i i i i		
Explosive properties:			Product is not explosive. However, formation of explosive air/vapo				
	mintunada						
	mixiures a	re possible.					
		-					
	Not determ	-					
Evaporation rate		-					
Evaporation rate Information with regard to physical		-					
Evaporation rate Information with regard to physical hazard classes	Not detern	nined.					
Evaporation rate Information with regard to physical hazard classes Explosives	Not detern Not applic	nined. able.					
Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases	Not determ Not applic Not applic	nined. able. able.					
Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols	Not determ Not applic Not applic Not applic	nined. able. able. able.					
Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases	Not determ Not applic Not applic Not applic Not applic Not applic	nined. able. able. able. able.					
Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure	Not determ Not applic Not applic Not applic Not applic Not applic Not applic	nined. able. able. able. able. able.					
Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids	Not determ Not applic Not applic Not applic Not applic Not applic Flammable	nined. able. able. able. able. able. e liquid and					
Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids	Not determ Not applic Not applic Not applic Not applic Flammable Not applic	nined. able. able. able. able. able. e liquid and able.					
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 determ Not applic Not applic Not applic Not applic Flammable Not applic Not applic Not applic	nined. able. able. able. able. e liquid and able. able.					
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 determ Not applic Not applic Not applic Not applic Flammable Not applic Not applic Not applic Not applic Not applic	nined. able. able. able. able. e liquid and able. able. able. able.					
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 determ Not applic Not applic Not applic Not applic Flammable Not applic Not applic Not applic Not applic Not applic Not applic	nined. able. able. able. able. e liquid and able. able. able. able. able.					
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	Not determ Not applic Not applic Not applic Not applic Flammable Not applic Not applic Not applic Not applic Not applic	nined. able. able. able. able. e liquid and able. able. able. able. able.					
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 determ Not applic Not applic Not applic Not applic Flammable Not applic Not applic Not applic Not applic Not applic Not applic	nined. able. able. able. able. able. able. able. able. able. able. able.					
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 determ Not applic Not applic Not applic Not applic Flammable Not applic Not applic Not applic Not applic Not applic Not applic Not applic	nined. able. able. able. able. able. able. able. able. able. able. able.					
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 Oxidising liquids	Not determ Not applic Not applic	nined. able. able. able. able. able. able. able. able. able. able. able. able.					
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 Oxidising liquids Oxidising solids	Not determ Not applic Not applic Not applic Not applic Flammable Not applic Not applic	nined. able. able. able. able. able. able. able. able. able. able. able. able. able.					
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 Oxidising liquids Oxidising solids Organic peroxides	Not determ Not applic Not applic Not applic Not applic Flammable Not applic Not applic	nined. able. able. able. able. able. able. able. able. able. able. able. able. able. able. able.					
Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable liquids 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 Organic peroxides Corrosive to metals Desensitised explosives	Not determ Not applic Not applic Not applic Not applic Flammable Not applic Not applic	nined. able. able. able. able. able. able. able. able. able. able. able. able. able. able. able. able.					

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.

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· 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

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.

· LD/LC50 values relevant for classification: 120-92-3 Cyclopentanone Oral LD50 1180 mg/kg (Rat) LD50 Dermal >2000 mg/kg (rabbit) Inhalative |LC50/4 h| > 19.5 mg/l (Rat) 107-98-2 1-methoxy-2-propanol Oral LD50 5660 mg/kg (Rat) Dermal LD50 13000 mg/kg (rabbit) Inhalative LC50/4 h 54.6 mg/l (Rat) 102322-80-5 Polyaliphatic imide copolymer $L\overline{D50}$ Oral >5000 mg/kg (Rat) (Data for compositionally similar material) LD50 >5000 mg/kg (Rat) (Data for compositionally similar material) Dermal · Primary irritant effect: 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. • 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 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.

• *Experience with humans:* No further relevant information available.

• 11.2 Information on other hazards

• Endocrine disrupting properties

None of the ingredients is listed.

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(Contd. of page 7) **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) 107-98-2 1-methoxy-2-propanol EC50/96 hr 23300 mg/l (daphnia magna) >1000 mg/l (green algae) LC50/96 h 20800 mg/l (Pimephales promelas) · 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.

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

· 14.1 UN number or ID number		
· ADR, IMDG, IATA	UN1866	
· 14.2 UN proper shipping name		
·ADR	1866 RESIN SOLUTION	
· IMDG, IATA	RESIN SOLUTION	

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[•] Uncleaned packaging:

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· 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): · EMS Number:	33 F-E, <u>S-E</u>	
· 14.7 Maritime transport in bulk according to IM instruments	IO 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 No further relevant information available.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- 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.

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

None of the ingredients is listed.

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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.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· 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: 6

· 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 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
- 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 Irrit. 2: Serious eye damage/eye irritation – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) Category 3

