

Safety Data Sheet acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

1 Identification

- **Product identifier**
- **Trade name:** QCO-136, PEO-136
- **Other means of identification**
- **Application of the substance / the mixture** For Laboratory Use Only
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
NSI Lab Solutions
7212 ACC Blvd.,
Raleigh, NC 27617
USA
- **Information department:** Product safety department
- **Emergency telephone number:** During normal opening times: +1 (919) 789-3000

* 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable liquids 2 H225 Highly flammable liquid and vapor.



GHS07

Acute toxicity - dermal 4 H312 Harmful in contact with skin.

Acute toxicity - inhalation 4 H332 Harmful if inhaled.

Eye irritation 2A H319 Causes serious eye irritation.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02



GHS07

- **Signal word** Danger
- **Hazard-determining components of labeling:**
acetonitrile
- **Hazard statements**
Highly flammable liquid and vapor.
Harmful in contact with skin or if inhaled.
Causes serious eye irritation.

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Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Ground / bond container and receiving equipment.

Use explosion-proof [electrical/ventilating/lighting] equipment.

Use non-sparking tools.

Take action to prevent static discharge.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use CO₂, powder or water spray to extinguish.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Information pertaining to particular dangers for man and environment:

Classification system:

NFPA ratings (scale 0 - 4)



HMIS-ratings (scale 0 - 4)



Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

* 3 Composition/information on ingredients

Chemical characterization: Mixtures

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

Dangerous components:

75-05-8	acetonitrile	≥80–≤100%
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· Non-hazardous components		
55-63-0	glycerol trinitrate	≥0–≤0.1%
78-11-5	pentaerythritol tetranitrate; pentaerythrite tetranitrate	≥0–≤0.1%
88-72-2	2-nitrotoluene	≥0–<0.1%
98-95-3	nitrobenzene	≥0–<0.1%
99-08-1	3-nitrotoluene	≥0–<0.1%
99-35-4	1,3,5-trinitrobenzene	≥0–≤0.1%
99-65-0	1,3-dinitrobenzene	≥0–≤0.1%
99-99-0	4-nitrotoluene	≥0–≤0.1%
118-96-7	2,4,6-trinitrotoluene	≥0–≤0.1%
121-14-2	2,4-dinitrotoluene	≥0–<0.1%
121-82-4	perhydro-1,3,5-trinitro-1,3,5-triazine	≥0–≤0.1%
479-45-8	N-methyl-N,2,4,6-tetranitroaniline	≥0–≤0.1%
556-88-7	nitroguanidine	≥0–≤0.1%
606-20-2	2,6-dinitrotoluene	≥0–<0.1%
618-87-1	3,5-dinitroaniline	≥0–≤0.1%
2691-41-0	cyclotetramethylenetetranitramine	≥0–≤0.1%
19406-51-0	4-Amino-2,6-dinitrotoluene	≥0–≤0.1%
35572-78-2	2-Amino-4,6-dinitrotoluene	≥0–≤0.1%

4 First-aid measures

· 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.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact: Immediately rinse with water.

· After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing: If symptoms persist consult doctor.

· Most important symptoms and effects, both acute and delayed No further relevant information available.

· Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

· Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

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* 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:**

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· **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 section 13.

Ensure adequate ventilation.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

75-05-8	acetonitrile	13 ppm
55-63-0	glycerol trinitrate	0.10 mg/m ³
78-11-5	pentaerythritol tetranitrate; pentaerythrite tetranitrate	5 mg/m ³
88-72-2	2-nitrotoluene	6.0 ppm
98-95-3	nitrobenzene	3 ppm
99-08-1	3-nitrotoluene	6 ppm
99-35-4	1,3,5-trinitrobenzene	1.5 mg/m ³
99-65-0	1,3-dinitrobenzene	3 mg/m ³
99-99-0	4-nitrotoluene	6 ppm
118-96-7	2,4,6-trinitrotoluene	0.3 mg/m ³
121-14-2	2,4-dinitrotoluene	0.6 mg/m ³
121-82-4	perhydro-1,3,5-trinitro-1,3,5-triazine	0.21 mg/m ³
479-45-8	N-methyl-N,2,4,6-tetranitroaniline	4.5 mg/m ³
606-20-2	2,6-dinitrotoluene	0.18 mg/m ³
2691-41-0	cyclotetramethylenetetranitramine	19 mg/m ³
35572-78-2	2-Amino-4,6-dinitrotoluene	4.2 mg/m ³

· **PAC-2:**

75-05-8	acetonitrile	50 ppm
55-63-0	glycerol trinitrate	2.0 mg/m ³
78-11-5	pentaerythritol tetranitrate; pentaerythrite tetranitrate	4.3 ppm
88-72-2	2-nitrotoluene	33 ppm
98-95-3	nitrobenzene	20 ppm
99-08-1	3-nitrotoluene	14 ppm
99-35-4	1,3,5-trinitrobenzene	16 mg/m ³
99-65-0	1,3-dinitrobenzene	33 mg/m ³
99-99-0	4-nitrotoluene	33 ppm
118-96-7	2,4,6-trinitrotoluene	17 mg/m ³
121-14-2	2,4-dinitrotoluene	8.8 mg/m ³
121-82-4	perhydro-1,3,5-trinitro-1,3,5-triazine	2.3 mg/m ³
479-45-8	N-methyl-N,2,4,6-tetranitroaniline	14 mg/m ³
606-20-2	2,6-dinitrotoluene	2.0 mg/m ³
2691-41-0	cyclotetramethylenetetranitramine	210 mg/m ³

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35572-78-2	2-Amino-4,6-dinitrotoluene	46 mg/m ³
· PAC-3:		
75-05-8	acetonitrile	150 ppm
55-63-0	glycerol trinitrate	75 mg/m ³
78-11-5	pentaerythritol tetranitrate; pentaerythrite tetranitrate	26 ppm
88-72-2	2-nitrotoluene	200 ppm
98-95-3	nitrobenzene	200 ppm
99-08-1	3-nitrotoluene	200 ppm
99-35-4	1,3,5-trinitrobenzene	54 mg/m ³
99-65-0	1,3-dinitrobenzene	200 mg/m ³
99-99-0	4-nitrotoluene	200 ppm
118-96-7	2,4,6-trinitrotoluene	1,000 mg/m ³
121-14-2	2,4-dinitrotoluene	53 mg/m ³
121-82-4	perhydro-1,3,5-trinitro-1,3,5-triazine	14 mg/m ³
479-45-8	N-methyl-N,2,4,6-tetranitroaniline	1,300 mg/m ³
606-20-2	2,6-dinitrotoluene	12 mg/m ³
2691-41-0	cyclotetramethylenetetranitramine	1,300 mg/m ³
35572-78-2	2-Amino-4,6-dinitrotoluene	280 mg/m ³

· 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.

7 Handling and storage

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· Conditions for safe storage, including any incompatibilities**· Storage:****· Requirements to be met by storerooms and receptacles:** Store in a cool location.**· Information about storage in one common storage facility:** Not required.**· Further information about storage conditions:**

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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

* 8 Exposure controls/personal protection

· Control parameters**· Components with limit values that require monitoring at the workplace:****75-05-8 acetonitrile**PEL Long-term value: 70 mg/m³, 40 ppm

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REL	Long-term value: 34 mg/m ³ , 20 ppm
TLV	Long-term value: 33 mg/m ³ , 20 ppm Skin, A4

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **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.
 - Avoid contact with the eyes and skin.
- **Breathing equipment:**
 - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

* 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Liquid
- **Color:** Colorless
- **Odor:** Aromatic
- **Odor threshold:** Not determined.
- **Melting point/Melting range:** -46 °C (-50.8 °F)
- **Boiling point/Boiling range:** 81 °C (177.8 °F)
- **Flammability:** Highly flammable.

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· Explosion limits:	
· Lower:	4.4 Vol %
· Upper:	16 Vol %
· Flash point:	5 °C (41 °F)
· Auto igniting:	525 °C (977 °F)
· Decomposition temperature:	Not determined.
· pH-value:	Not determined.
· Viscosity:	
· Kinematic:	Not determined.
· Dynamic at 20 °C (68 °F):	0.39 mPas
· Solubility in / Miscibility with	
· Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)
· Vapor pressure at 50 °C (122 °F):	330 hPa (247.5 mm Hg)
· Density at 20 °C (68 °F):	0.7822 g/cm ³ (6.52746 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Particle characteristics	Not applicable.
· Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Solvent content:	
· VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal
· Solids content:	0 %
· Change in condition	
· Evaporation rate	Not determined.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

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*11 Toxicological information

· **Information on toxicological effects**· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:**

ATE (Acute Toxicity Estimate)

Oral	LD50	2,731–2,786 mg/kg (rat)
Dermal	LD50	1,250–1,276 mg/kg (rabbit)
Inhalative	LC50/4 h	11–11.2 mg/l

75-05-8 acetonitrile

Oral	LD50	2,730 mg/kg (rat)
Dermal	LD50	1,250 mg/kg (rabbit)

· **Primary irritant effect:**· **on the skin:** No irritant effect.· **on the eye:** Irritating effect.· **Sensitization:** No sensitizing effects known.· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

· **Interactive effects** No interactive effects between components are known.· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

88-72-2	2-nitrotoluene	2A
98-95-3	nitrobenzene	2B
99-08-1	3-nitrotoluene	3
99-99-0	4-nitrotoluene	3
118-96-7	2,4,6-trinitrotoluene	3
121-14-2	2,4-dinitrotoluene	2B
606-20-2	2,6-dinitrotoluene	2B

· **NTP (National Toxicology Program)**

88-72-2	2-nitrotoluene	R
98-95-3	nitrobenzene	R

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Alternative sources for toxicological information** No non-standard sources for toxicological information where used.

12 Ecological information

· **Toxicity**· **Aquatic toxicity:** No further relevant information available.· **Persistence and degradability** No further relevant information available.· **Bioaccumulative potential** No further relevant information available.· **Mobility in soil** No further relevant information available.· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.

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- **vPvB:** Not applicable.
- **Other adverse effects**
- **Additional ecological information:**
- **General notes:**
 - Water hazard class 2 (Self-assessment): hazardous for water
 - Do not allow product to reach ground water, water course or sewage system.
 - Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
 - Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· UN-Number	
· DOT, IMDG, IATA	UN1993
· UN proper shipping name	
· DOT	Flammable liquids, n.o.s. (Acetonitrile)
· IMDG	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE)
· IATA	Flammable liquid, n.o.s. (ACETONITRILE)
· Transport hazard class(es)	
· DOT	
	
· Class	3 Flammable liquids
· Label	3
· IMDG, IATA	
	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, IMDG, IATA	II
· Environmental hazards:	Not applicable.
· Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

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· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· 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
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code):	33
· EMS Number:	F-E, <u>S-E</u>
· Stowage Category	B
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE), 3, II

*15 Regulatory information

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

No further relevant information available.

· **Sara**

· Section 355 (extremely hazardous substances):		
98-95-3	nitrobenzene	
· Section 313 (Specific toxic chemical listings):		
75-05-8	acetonitrile	
55-63-0	glycerol trinitrate	
88-72-2	2-nitrotoluene	
98-95-3	nitrobenzene	
99-65-0	1,3-dinitrobenzene	
121-14-2	2,4-dinitrotoluene	
606-20-2	2,6-dinitrotoluene	
· TSCA (Toxic Substances Control Act):		
75-05-8	acetonitrile	ACTIVE
55-63-0	glycerol trinitrate	ACTIVE
78-11-5	pentaerythritol tetranitrate; pentaerythrite tetranitrate	ACTIVE
88-72-2	2-nitrotoluene	ACTIVE
98-95-3	nitrobenzene	ACTIVE
99-08-1	3-nitrotoluene	ACTIVE
99-35-4	1,3,5-trinitrobenzene	ACTIVE
99-65-0	1,3-dinitrobenzene	ACTIVE
99-99-0	4-nitrotoluene	ACTIVE
118-96-7	2,4,6-trinitrotoluene	ACTIVE
121-14-2	2,4-dinitrotoluene	ACTIVE
121-82-4	perhydro-1,3,5-trinitro-1,3,5-triazine	ACTIVE

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479-45-8	N-methyl-N,2,4,6-tetranitroaniline	ACTIVE
556-88-7	nitroguanidine	ACTIVE
606-20-2	2,6-dinitrotoluene	ACTIVE
2691-41-0	cyclotetramethylenetetranitramine	ACTIVE

· Hazardous Air Pollutants

75-05-8	acetonitrile
98-95-3	nitrobenzene
121-14-2	2,4-dinitrotoluene

· Proposition 65**· Chemicals known to cause cancer:**

88-72-2	2-nitrotoluene
98-95-3	nitrobenzene
118-96-7	2,4,6-trinitrotoluene
121-14-2	2,4-dinitrotoluene
606-20-2	2,6-dinitrotoluene

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

98-95-3	nitrobenzene
99-65-0	1,3-dinitrobenzene
121-14-2	2,4-dinitrotoluene
606-20-2	2,6-dinitrotoluene

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories**· EPA (Environmental Protection Agency)**

75-05-8	acetonitrile	CBD, D
98-95-3	nitrobenzene	L
99-65-0	1,3-dinitrobenzene	D
118-96-7	2,4,6-trinitrotoluene	C
121-82-4	perhydro-1,3,5-trinitro-1,3,5-triazine	C
556-88-7	nitroguanidine	D
2691-41-0	cyclotetramethylenetetranitramine	D

· TLV (Threshold Limit Value)

75-05-8	acetonitrile	A4
98-95-3	nitrobenzene	A3
121-82-4	perhydro-1,3,5-trinitro-1,3,5-triazine	A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

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· Hazard pictograms



GHS02 GHS07

· Signal word Danger

· Hazard-determining components of labeling:

acetonitrile

· Hazard statements

Highly flammable liquid and vapor.

Harmful in contact with skin or if inhaled.

Causes serious eye irritation.

· Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Ground / bond container and receiving equipment.

Use explosion-proof [electrical/ventilating/lighting] equipment.

Use non-sparking tools.

Take action to prevent static discharge.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use CO₂, powder or water spray to extinguish.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

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

· Department issuing SDS: Environment protection department.

· Contact: - Department Technical Manager

· Date of previous version 04/15/2024

· Date of preparation 06/30/2026

· 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

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flammable liquids 2: Flammable liquids – Category 2

Acute toxicity - dermal 4: Acute toxicity – Category 4

Eye irritation 2A: Serious eye damage/eye irritation – Category 2A

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

US
