

Safety Data Sheet

acc. to OSHA HCS

Revision date 08/23/2024

1 Identification

- **Product identifier**
- **Product Name: Organophosphorous Pesticides Standard (1X1 mL)**
- **Part number:** SPM-824-1
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Agilent Technologies, Inc.
 5301 Stevens Creek Blvd.
 Santa Clara, CA 95051 USA
- **Information department:**
 Telephone: 800-227-9770
 e-mail: pdl-msds_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable Liquids 2

H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Toxic to Reproduction 2

H361 Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Repeated Exposure 2

H373 May cause damage to organs through prolonged or repeated exposure.

Aspiration Hazard 1

H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irritation 2

H315 Causes skin irritation.

Eye Irritation 2A

H319 Causes serious eye irritation.

Specific Target Organ Toxicity - Single Exposure 3

H336 May cause drowsiness or dizziness.

- **Label elements**

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

- **Hazard pictograms**



GHS02



GHS07



GHS08

- **Signal word** Danger

(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/23/2024

Revision date 08/23/2024

Product Name: Organophosphorous Pesticides Standard (1X1 mL)

(Contd. of page 1)

· Hazard-determining components of labeling:

 n-hexane
 acetone

· Hazard statements

H225 Highly flammable liquid and vapor.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H361 Suspected of damaging fertility or the unborn child.
 H336 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.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P241 Use explosion-proof electrical/ventilating/lighting/equipment.
 P260 Do not breathe dust/fume/gas/mist/vapors/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P240 Ground/bond container and receiving equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P264 Wash thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P301+P310 If swallowed: Immediately call a poison center/doctor.
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P321 Specific treatment (see on this label).
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P312 Call a poison center/doctor if you feel unwell.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P314 Get medical advice/attention if you feel unwell.
 P331 Do NOT induce vomiting.
 P370+P378 In case of fire: Use CO₂, powder or water spray to extinguish.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P405 Store locked up.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Classification system:
· NFPA ratings (scale 0 - 4)


Health = 2
 Fire = 3
 Reactivity = 0

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/23/2024

Revision date 08/23/2024

Product Name: Organophosphorous Pesticides Standard (1X1 mL)

(Contd. of page 2)

· HMIS-ratings (scale 0 - 4)

HEALTH	2	Health = 2
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

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

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

67-64-1	acetone	54.2506%
110-54-3	n-hexane	45.1974%

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:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **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.
- **Information for 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.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

US

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/23/2024

Revision date 08/23/2024

Product Name: Organophosphorous Pesticides Standard (1X1 mL)

(Contd. of page 3)

6 Accidental release measures

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

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:** 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.

· **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.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

67-64-1	acetone	200 ppm
110-54-3	n-hexane	260 ppm
55-38-9	fenthion (ISO)	0.15 mg/m ³
56-72-4	coumaphos (ISO)	0.27 mg/m ³
62-73-7	dichlorvos (ISO)	1.8 mg/m ³
86-50-0	azinthos-methyl (ISO)	0.6 mg/m ³
115-90-2	fensulfothion (ISO)	0.18 mg/m ³
298-00-0	parathion -methyl (ISO)	0.11 mg/m ³
298-02-2	phorate (ISO)	0.0036 mg/m ³
298-04-4	disulfoton	0.18 mg/m ³
327-98-0	trichloronate (ISO)	0.91 mg/m ³
2921-88-2	chlorpyrifos (ISO)	0.6 mg/m ³
7786-34-7	mevinphos (ISO)	0.3 mg/m ³
8065-48-3	demeton	0.18 mg/m ³
13194-48-4	ethoprophos (ISO)	0.14 mg/m ³

· **PAC-2:**

67-64-1	acetone	3200* ppm
110-54-3	n-hexane	2900* ppm
55-38-9	fenthion (ISO)	5.9 mg/m ³
56-72-4	coumaphos (ISO)	3 mg/m ³
62-73-7	dichlorvos (ISO)	20 mg/m ³
86-50-0	azinthos-methyl (ISO)	0.7 mg/m ³
115-90-2	fensulfothion (ISO)	2 mg/m ³
298-00-0	parathion -methyl (ISO)	1.2 mg/m ³
298-02-2	phorate (ISO)	0.040 mg/m ³
298-04-4	disulfoton	2 mg/m ³
327-98-0	trichloronate (ISO)	10 mg/m ³
2921-88-2	chlorpyrifos (ISO)	1.5 mg/m ³

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/23/2024

Revision date 08/23/2024

Product Name: Organophosphorous Pesticides Standard (1X1 mL)

(Contd. of page 4)

7786-34-7	mevinphos (ISO)	4 mg/m ³
8065-48-3	demeton	2 mg/m ³
13194-48-4	ethoprophos (ISO)	1.6 mg/m ³
· PAC-3:		
67-64-1	acetone	5700* ppm
110-54-3	n-hexane	8600** ppm
55-38-9	fenthion (ISO)	35 mg/m ³
56-72-4	coumaphos (ISO)	13 mg/m ³
62-73-7	dichlorvos (ISO)	200 mg/m ³
86-50-0	azinphos-methyl (ISO)	20 mg/m ³
115-90-2	fensulfothion (ISO)	3.1 mg/m ³
298-00-0	parathion -methyl (ISO)	3.5 mg/m ³
298-02-2	phorate (ISO)	0.12 mg/m ³
298-04-4	disulfoton	8.8 mg/m ³
327-98-0	trichloronate (ISO)	30 mg/m ³
2921-88-2	chlorpyrifos (ISO)	8.8 mg/m ³
7786-34-7	mevinphos (ISO)	40 mg/m ³
8065-48-3	demeton	20 mg/m ³
13194-48-4	ethoprophos (ISO)	9.3 mg/m ³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
- **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

- **Additional information about design of technical systems:** No further data; see section 7.

(Contd. on page 6)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/23/2024

Revision date 08/23/2024

Product Name: Organophosphorous Pesticides Standard (1X1 mL)

(Contd. of page 5)

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

67-64-1 acetone

PEL	Long-term value: 2400 mg/m ³ , 1000 ppm
REL	Long-term value: 590 mg/m ³ , 250 ppm
TLV	Short-term value: 500 ppm Long-term value: 250 ppm A4, BEI

110-54-3 n-hexane

PEL	Long-term value: 1800 mg/m ³ , 500 ppm
REL	Long-term value: 180 mg/m ³ , 50 ppm
TLV	Long-term value: 50 ppm Skin; BEI

- **Ingredients with biological limit values:**

67-64-1 acetone

BEI	25 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
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110-54-3 n-hexane

BEI	0.5 mg/L Medium: urine Time: end of shift Parameter: 2,5-Hexanedione without hydrolysis
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- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **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.
Store protective clothing separately.
Avoid contact with the eyes and skin.

- **Breathing equipment:**

When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

- **Protection of hands:**

Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

- **Material of gloves**

For normal use: nitrile rubber, 11-13 mil thickness
For direct contact with the chemical: butyl rubber, 12-15 mil thickness

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/23/2024

Revision date 08/23/2024

Product Name: Organophosphorous Pesticides Standard (1X1 mL)

(Contd. of page 6)

- **Penetration time of glove material**
For normal use: nitrile rubber: 1 hour
For direct contact with the chemical: butyl rubber: >4 hours
- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

· Form:	Fluid
· Color:	According to product specification
· Odor:	Characteristic
· Odor threshold:	Not determined.

- **pH-value:** Not determined.

- **Change in condition**

· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	55.8-56.6 °C (132.4-133.9 °F)

- **Flash point:** -22 °C (-7.6 °F)

- **Flammability (solid, gaseous):** Highly flammable.

- **Auto igniting:** 240 °C (464 °F)

- **Decomposition temperature:** Not determined.

- **Ignition temperature:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- **Explosion limits:**

· Lower:	1.2 Vol %
· Upper:	13 Vol %

- **Vapor pressure at 20 °C (68 °F):** 175 hPa (131.3 mm Hg)

- **Vapor pressure at 50 °C (122 °F):** 800 hPa (600 mm Hg)

- **Density:** Not determined.

- **Relative density** Not determined.

- **Vapor density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with**

- **Water:** Not miscible or difficult to mix.

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**

- **Dynamic:** Not determined.

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/23/2024

Revision date 08/23/2024

Product Name: Organophosphorous Pesticides Standard (1X1 mL)

(Contd. of page 7)

Kinematic:	Not determined.
Solvent content:	
Organic solvents:	99.6 %
VOC content:	45.39 %
	453.9 g/l / 3.79 lb/gal
Solids content:	0.2 %
Other information	No further relevant information available.

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.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

67-64-1 acetone

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

110-54-3 n-hexane

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

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **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:
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

62-73-7	dichlorvos (ISO)	2B
298-00-0	parathion -methyl (ISO)	3
333-41-5	diazinon (ISO)	2A
22248-79-9	Tetrachlorvinphos	2B

(Contd. on page 9)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/23/2024

Revision date 08/23/2024

Product Name: Organophosphorous Pesticides Standard (1X1 mL)

(Contd. of page 8)

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **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.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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.

14 Transport information

· Not Regulated, De minimis Quantities	-
· UN-Number · DOT, IMDG, IATA	UN1993
· UN proper shipping name · DOT · IMDG · IATA	Flammable liquids, n.o.s. (Acetone, Hexanes) FLAMMABLE LIQUID, N.O.S. (ACETONE, HEXANES), MARINE POLLUTANT FLAMMABLE LIQUID, N.O.S. (ACETONE, HEXANES)

(Contd. on page 10)

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/23/2024

Revision date 08/23/2024

Product Name: Organophosphorous Pesticides Standard (1X1 mL)

(Contd. of page 9)

- **Transport hazard class(es)**

- **DOT**



- **Class** 3 Flammable liquids
- **Label** 3

- **IMDG**



- **Class** 3 Flammable liquids
- **Label** 3

- **IATA**



- **Class** 3 Flammable liquids
- **Label** 3

- **Packing group**
- **DOT, IMDG, IATA** II

- **Environmental hazards:** Product contains environmentally hazardous substances: n-hexane

- **Marine pollutant:** Symbol (fish and tree)

- **Special precautions for user** Warning: Flammable liquids

- **Hazard identification number (Kemler code):** 33

- **EMS Number:** F-E,S-E

- **Stowage Category** B

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

- **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

(Contd. on page 11)

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/23/2024

Revision date 08/23/2024

Product Name: Organophosphorous Pesticides Standard (1X1 mL)

(Contd. of page 10)

· **UN "Model Regulation":** UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONE, HEXANES), 3, II, ENVIRONMENTALLY HAZARDOUS

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):**

56-72-4	coumaphos (ISO)
62-73-7	dichlorvos (ISO)
86-50-0	azinphos-methyl (ISO)
115-90-2	fensulfothion (ISO)
298-00-0	parathion -methyl (ISO)
298-02-2	phorate (ISO)
298-04-4	disulfoton
327-98-0	trichloronate (ISO)
7786-34-7	mevinphos (ISO)
8065-48-3	demeton
13194-48-4	ethoprophos (ISO)

· **Section 313 (Specific toxic chemical listings):**

110-54-3	n-hexane
55-38-9	fenthion (ISO)
62-73-7	dichlorvos (ISO)
150-50-5	merphos
298-00-0	parathion -methyl (ISO)
300-76-5	naled (ISO)
333-41-5	diazinon (ISO)
7786-34-7	mevinphos (ISO)
13194-48-4	ethoprophos (ISO)
35400-43-2	sulprophos (bolstar)

· **TSCA (Toxic Substances Control Act):**

67-64-1	acetone	ACTIVE
110-54-3	n-hexane	ACTIVE
62-73-7	dichlorvos (ISO)	ACTIVE
150-50-5	merphos	ACTIVE
333-41-5	diazinon (ISO)	ACTIVE

· **Hazardous Air Pollutants**

110-54-3	n-hexane
62-73-7	dichlorvos (ISO)

(Contd. on page 12)

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/23/2024

Revision date 08/23/2024

Product Name: Organophosphorous Pesticides Standard (1X1 mL)

(Contd. of page 11)

· Proposition 65
· Chemicals known to cause cancer:

62-73-7	dichlorvos (ISO)
13194-48-4	ethoprophos (ISO)
22248-79-9	Tetrachlorvinphos

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

110-54-3	n-hexane
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· Chemicals known to cause developmental toxicity:

2921-88-2	chlorpyrifos (ISO)
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· Carcinogenic categories
· EPA (Environmental Protection Agency)

67-64-1	acetone	I
110-54-3	n-hexane	II
62-73-7	dichlorvos (ISO)	B2

· TLV (Threshold Limit Value)

67-64-1	acetone	A4
55-38-9	fenthion (ISO)	A4
56-72-4	coumaphos (ISO)	A4
62-73-7	dichlorvos (ISO)	A4
86-50-0	azinthos-methyl (ISO)	A4
115-90-2	fensulfothion (ISO)	A4
298-00-0	parathion -methyl (ISO)	A4
298-02-2	phorate (ISO)	A4
298-04-4	disulfoton	A4
299-84-3	fenchlorphos (ISO)	A4
300-76-5	naled (ISO)	A4
333-41-5	diazinon (ISO)	A4
2921-88-2	chlorpyrifos (ISO)	A4
7786-34-7	mevinphos (ISO)	A4
35400-43-2	sulprophos (bolstar)	A4

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

None of the ingredients is listed.

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

16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

- **Department issuing SDS:** Document Control / Regulatory
- **Contact:** pdl-acg-regulatory-cq@agilent.com

(Contd. on page 13)

Safety Data Sheet
acc. to OSHA HCS

Printing date 08/23/2024

Revision date 08/23/2024

Product Name: Organophosphorous Pesticides Standard (1X1 mL)

(Contd. of page 12)

· **Date of preparation / last revision** 08/23/2024 / 4· **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

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

BEI: Biological Exposure Limit

Flammable Liquids 2: Flammable liquids – Category 2

Skin Irritation 2: Skin corrosion/irritation – Category 2

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

Toxic to Reproduction 2: Reproductive toxicity – Category 2

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2

Aspiration Hazard 1: Aspiration hazard – Category 1

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

US