

Safety Data Sheet
Created accoring to GHS

Printing date 05/16/2023

Reviewed on 05/16/2023

1 Identification

- **Product identifier**
- **Trade name:** Mega-Kel-P
- **Article number:** DKJ0079
- **Application of the substance / the mixture** Liquid Fertilizer
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Omnia Specialties, Inc.
9605 W 49th Ave Ste 201
Wheat Ridge
CO 80033
Afterhours and toll-free number: (800)760-8402
Office number: (720) 932-1610
- **Information department:**
info@omniausa.org
+1-800-760-8402
- **Emergency telephone number:** ChemTrec 1-800-262-8200 Available 24/7

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Toxic to Reproduction 1B

H360 May damage fertility or the unborn child.

Specific Target Organ Toxicity - Repeated Exposure 2

H373 May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.



GHS05 Corrosion

Corrosive to Metals 1

H290 May be corrosive to metals.

Eye Damage 1

H318 Causes serious eye damage.



GHS07

Acute Toxicity - Inhalation 4

H332 Harmful if inhaled.

Skin Irritation 2

H315 Causes skin irritation.

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



GHS05



GHS07



GHS08

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- **Signal word** *Danger*

- **Hazard-determining components of labeling:**

*Technical Grade Phosphoric acid
Disodium octaborate tetrahydrate
Manganese Sulphate Monohydrate
Zinc sulphate monohydrate*

- **Hazard statements**

*H290 May be corrosive to metals.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H360 May damage fertility or the unborn child.
H373 May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.*

- **Precautionary statements**

*Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep only in original container.
Do not breathe 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.
If on skin: Wash with plenty of water.
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.
Immediately call a poison center/doctor.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
Get medical advice/attention if you feel unwell.
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
Absorb spillage to prevent material damage.
Store locked up.
Store in corrosive resistant container with a resistant inner liner.
Dispose of contents/container in accordance with local/regional/national/international regulations.*

- **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.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

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

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· Dangerous components:		
7664-38-2	Technical Grade Phosphoric acid	>10-15%
10034-96-5	Manganese Sulphate Monohydrate	>1-5%
7446-19-7	Zinc sulphate monohydrate	>1-5%
12280-03-4	Disodium octaborate tetrahydrate	0.3-1%

4 First-aid measures

- **Description of first aid measures**

- **After inhalation:**

Move the injured person to fresh air at once. Keep patient warm and at rest. Obtain medical attention.

- **After skin contact:**

Remove contaminated clothing and wash skin with plenty of water. Obtain medical attention.

- **After eye contact:**

Immediately irrigate the eyes with eye wash solution or clean water for at least 10 minutes. Continue intermittent irrigation until medical attention can be obtained. Hold eyelids open during flushing

- **After swallowing:**

Do not induce vomiting. If the person is conscious, wash out mouth and give 2 to 3 glasses water or milk to drink. Immediately obtain medical attention.

- **Information for doctor:** Show the SDS to the doctor/physician.

- **Most important symptoms and effects, both acute and delayed**

May cause reversible damage to the skin - erythema, oedema or inflammation.

May induce reversible eye irritation – conjunctival redness or oedema, iritis or corneal opacity.

Can cause corrosion and damage to the gastro-intestinal tract or ulceration. May cause pain in the throat and stomach. May cause difficulty swallowing, thirst, nausea, vomiting and diarrhea.

Acid mists may cause throat and lung irritation. Irritation may lead to chemical pneumonitis and pulmonary edema. May cause breathing difficulty.

- **Danger**

In case fertilizer spilled on equipment or surfaces, rinse off speedily and prevent drying. Dried material will cause immediate blistering on contact with sensitive skin.

- **Indication of any immediate medical attention and special treatment needed**

Do first aid as indicated, then, when seeking medical attention, show this SDS to the physician.

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.

Use fire fighting measures that suit the environment.

- **Special hazards arising from the substance or mixture** Contact with metals may release Hydrogen gas

- **Advice for firefighters**

Small Fire

Water spray, dry chemical or CO₂

Large fire

Water spray, dry chemical, CO₂, alcohol resistant foam.

If it can be done safely, move undamaged containers away from the area around the fire

Fire involving tanks or car/trailer loads

Fight fire from maximum distance or use unmanned master steam devices or monitor nozzles.

Cool containers with flooding quantities of water until well after fire is out.

Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.

ALWAYS stay away from tanks engulfed in fire.

Dike runoff from fire control for later disposal.

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· Protective equipment:

Wear corrosion resistant protective suit as well as eye protection, face mask and independent breathing apparatus.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective gear. Do not inhale the material or its combustion products. Go against the wind and keep out of low areas. Evacuate personnel to safe area. Ensure adequate ventilation.

· Environmental precautions:

Do not allow to enter waterways or sewage systems. Dam liquid up by dyking or absorb with neutralizing material. If liquid enters water courses, inform authorities. Smaller amounts may harm animals drinking the water and larger amounts may cause eutrophication. If a large amount entered a small body of water, the pH may be decreased and organisms may be affected.

· Methods and material for containment and cleaning up:

Contain liquid ahead of spill. Absorb liquid with neutralizing agent or soil or other absorbant. Neutralize absorbed liquid before disposal if not absorbed onto neutralizing agent. If liquid leached into soil, collect contaminated soil and neutralize.

Shovel into drums for disposal. Do not flush spilled material into drains. Do not let vehicle drive over the spilled liquid. Dispose contaminated material according to section 13.

In case fertilizer spilled on equipment or surfaces, especially those made from metal, rinse off speedily and prevent drying. Corrosion will increase as liquid concentrates up when drying.

· 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:**

7664-38-2	Technical Grade Phosphoric acid	3 mg/m ³
57-13-6	urea	30 mg/m ³
7778-77-0	potassium dihydrogenorthophosphate	9.6 mg/m ³
10034-96-5	Manganese Sulphate Monohydrate	9.2 mg/m ³
7778-80-5	Potassium sulphate	20 mg/m ³
64-02-8	Na ₄ EDTA	75 mg/m ³
7758-99-8	copper sulphate pentahydrate	12 mg/m ³
7782-63-0	IRON SULPHATE HEPTAHYDRATE	15 mg/m ³
10102-40-6	Sodium Molybdate	3.8 mg/m ³

· PAC-2:

7664-38-2	Technical Grade Phosphoric acid	30 mg/m ³
57-13-6	urea	280 mg/m ³
7778-77-0	potassium dihydrogenorthophosphate	110 mg/m ³
10034-96-5	Manganese Sulphate Monohydrate	15 mg/m ³
7778-80-5	Potassium sulphate	220 mg/m ³
64-02-8	Na ₄ EDTA	830 mg/m ³
7758-99-8	copper sulphate pentahydrate	32 mg/m ³
7782-63-0	IRON SULPHATE HEPTAHYDRATE	170 mg/m ³
10102-40-6	Sodium Molybdate	34 mg/m ³

· PAC-3:

7664-38-2	Technical Grade Phosphoric acid	150 mg/m ³
57-13-6	urea	1,700 mg/m ³
7778-77-0	potassium dihydrogenorthophosphate	630 mg/m ³

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10034-96-5	Manganese Sulphate Monohydrate	90 mg/m ³
7778-80-5	Potassium sulphate	1,300 mg/m ³
64-02-8	Na ₄ EDTA	5,000 mg/m ³
7758-99-8	copper sulphate pentahydrate	190 mg/m ³
7782-63-0	IRON SULPHATE HEPTAHYDRATE	990 mg/m ³
10102-40-6	Sodium Molybdate	210 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.

Avoid contact with skin, eyes and clothes. Wear protective clothing including chemical goggles, acid resistant protective suite and boots and acid resistant gloves.

In case fertilizer spilled on equipment or surfaces, rinse off speedily and prevent drying. Dried material will cause immediate blistering on contact with sensitive skin

- **Information about protection against explosions and fires:**

No special measures required.

Keep away from heat, fire, metals and potential ignition sources. Do not smoke.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Ensure sufficient ventilation and that space is cool and dry. Ensure eyewash station and safety showers is near workstations. Ensure sufficient fire fighting water is available. Ensure containers stay closed.

Ensure sufficient fire fighting water and that run-off from fire fighting will not enter surface or ground water.

Large storage tanks should be banded and electrically grounded.

Avoid using glass or unprotected steel containers.

- **Information about storage in one common storage facility:**

Do not store together with alkalis, metals, combustible materials and foodstuffs.

- **Further information about storage conditions:**

Keep receptacle tightly sealed.

In case fertilizer spilled on equipment or surfaces, especially those made from metal, rinse off speedily and prevent drying. Corrosion will increase as liquid concentrates up when drying.

- **Specific end use(s)** For use in agriculture.

8 Exposure controls/personal protection

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

- **Control parameters**

- **Components 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.

- **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.

Avoid contact with the eyes and skin.

Store protective clothing separately.

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· **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. 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:** Wear acid resistant protective work clothing and boots.

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form:	Liquid
Color:	Greenish Brown
Odor:	Slight Pungent
Odor threshold:	Not determined.

· **pH-value at 20 °C (68 °F):** 2.3

· **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not applicable.

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

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

· **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

· **Vapor pressure:** Not determined.

· **Density at 20 °C (68 °F):** 1.35 g/cm³ (11.26575 lbs/gal)

· **Relative density** Not determined.

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- **Vapor density** Not determined.
- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with Water:** Fully miscible.

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

- **Viscosity:**
- **Dynamic:** Not determined.
- **Kinematic:** Not determined.

- **Solvent content:**
- **Water:** 46.9 %
- **VOC content:** 0.00 %
- 0.0 g/l / 0.00 lb/gal

- **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:** May decompose on heating
- **Possibility of hazardous reactions**
May react with alkalies to produce heat and with metals to produce flammable gasses.
- **Conditions to avoid**
Incompatibles and extreme temperatures.
Spilling material on metal surfaces and especially leaving material on surfaces to concentrate up, may corrode surfaces.
- **Incompatible materials:**
Alkalies and metals, aluminium, copper, mild steel and bronze.
Aluminium in contact with these liquids causes the liquids to gel.
- **Hazardous decomposition products:**
Ammonia
Sulfur dioxide
Carbon monoxide and carbon dioxide

11 Toxicological information

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

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

7664-38-2 Technical Grade Phosphoric acid

Oral	LD50	1,530 mg/kg (rat)
Dermal	LD50	2,740 mg/kg (rabbit)
Inhalative	LC50 4 h	1.071 mg/l (rat) NIOSH derived value

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Corrosive

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Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- **Carcinogenic categories**

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

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

- **Specific target organ toxicity - repeated exposure** May cause damage to organs through repeated exposure

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

Smaller amounts that enters waterways may harm animals drinking the water and larger amounts may cause eutrophication. If a large amount entered a small body of water, the pH may be decreased and organisms may be affected.

7664-38-2 Technical Grade Phosphoric acid	
LC 50 96hr immersed	3.5 mg/l (<i>Lepomis cyanellus</i> (Green Sunfish))
EC50 12hr	4.6 pH (<i>Daphnia magnus</i>)

- **Persistence and degradability** Freely dissociates. All components may become part of natural mineral cycles.

- **Behavior in environmental systems:**

- **Bioaccumulative potential**

May contribute to the eutrophication of water bodies.

May accumulate in soils and water bodies and possibly in life forms.

- **Mobility in soil** Low volatility. Soluble in water.

- **Ecotoxicological effects:**

- **Remark:** Toxic for fish

- **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.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- **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.

If uncontaminated, recycle to process or neutralize and dispose on suitable farmland in suitable quantities. If contaminated, consult with supplier as to best course of action.

- **Uncleaned packagings:**

- **Recommendation:** Empty containers must be thoroughly cleaned before re-use.

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· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**· **DOT, ADR, IMDG, IATA** UN3264· **UN proper shipping name**· **DOT**· **ADR**

Corrosive liquid, acidic, inorganic, n.o.s.

UN3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., ENVIRONMENTALLY HAZARDOUS CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, SOLUTION), ENVIRONMENTALLY HAZARDOUS

· **IMDG, IATA**

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

· **Transport hazard class(es)**· **DOT**· **Class**

8 Corrosive substances

· **Label**

8

· **ADR**· **Class**

8 (C1) Corrosive substances

· **Label**

8

· **IMDG, IATA**· **Class**

8 Corrosive substances

· **Label**

8

· **Packing group**· **DOT, ADR, IMDG, IATA**

II

· **Environmental hazards:**· **Special marking (ADR):**

Symbol (fish and tree)

· **Special precautions for user**

Warning: Corrosive substances

· **Hazard identification number (Kemler code):** 80· **EMS Number:**

F-A,S-B

· **Segregation groups**

Acids

· **Stowage Category**

B

· **Stowage Code**

SW2 Clear of living quarters.

· **Segregation Code**

SG36 Stow "separated from" SGG18-alkalis.

SG49 Stow "separated from" SGG6-cyanides

· **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: 1 L On cargo aircraft only: 30 L
<hr/>	
· ADR	
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<hr/>	
· 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
<hr/>	
· UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, 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):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

7664-38-2 Technical Grade Phosphoric acid

10034-96-5 Manganese Sulphate Monohydrate

7446-19-7 Zinc sulphate monohydrate

· TSCA (Toxic Substances Control Act):

	DE-IONISED WATER	ACTIVE
	Water	ACTIVE
7664-38-2	Technical Grade Phosphoric acid	ACTIVE
57-13-6	urea	ACTIVE
7778-77-0	potassium dihydrogenorthophosphate	ACTIVE
7778-80-5	Potassium sulphate	ACTIVE
64-02-8	Na4 EDTA	ACTIVE

· Hazardous Air Pollutants

10034-96-5 Manganese Sulphate Monohydrate

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

57-13-6	urea	II
10034-96-5	Manganese Sulphate Monohydrate	D
7446-19-7	Zinc sulphate monohydrate	D, I, II

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **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).

· **Hazard pictograms**



GHS05 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

Technical Grade Phosphoric acid
Disodium octaborate tetrahydrate
Manganese Sulphate Monohydrate
Zinc sulphate monohydrate

· **Hazard statements**

H290 May be corrosive to metals.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H360 May damage fertility or the unborn child.
H373 May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

· **Precautionary statements**

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep only in original container.
Do not breathe 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.
If on skin: Wash with plenty of water.
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.
Immediately call a poison center/doctor.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
Get medical advice/attention if you feel unwell.
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
Absorb spillage to prevent material damage.
Store locked up.
Store in corrosive resistant container with a resistant inner liner.
Dispose of contents/container in accordance with local/regional/national/international regulations.

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· **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.

· **Contact:**· **Date of preparation / last revision** 05/16/2023 / -· **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)

HMS: 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

Corrosive to Metals 1: Corrosive to metals – Category 1

Acute Toxicity - Inhalation 4: Acute toxicity – Category 4

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Damage 1: Serious eye damage/eye irritation – Category 1

Toxic to Reproduction 1B: Reproductive toxicity – Category 1B

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

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