



Safety Data Sheet

according to WHMIS 2023 and HCS 2024

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Date of issue 11/05/2025

Version number 6.01

Revision: 02/26/2025

1 Identification

· Product identifier

· Trade name: 422B

· Other Means of Identification: Silicone Modified Conformal Coating

· Related Part Number:

422B-Liquid, 422B-55ML, 422B-1L, 422B-4L, 422BPX-4L, 422B-20L, 422B-20LTH, 422B-200L

· Application of the substance / the mixture Coating

· Uses advised against For industrial use only

· Details of the supplier of the safety data sheet

Manufacturer/Supplier:

MG Chemicals (Head Office)
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADA
+(1) 800-340-0772
+(1) 905-331-1396
info@mgchemicals.com

Distributor:

Masline
511 Clinton Ave S
Rochester, New York 14620
United States
+(1) 586-546-5373

· Information department: sds@mgchemicals.com

· Emergency telephone number:

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents)
USA or CANADA-Call 3E at +1-866-519-4752 or +1-760-476-3962 (Service access code: 335388)

For emergencies involving the transport of dangerous goods; 24/7 service
CANADA-Call CANUTEC collect at +1-613-996-6666 or *666 on cellular phones

2 Hazard identification

· Classification of the substance or mixture

Flammable liquids – Category 2

H225 Highly flammable liquid and vapour.

Skin Irritation - Category 2

H315 Causes skin irritation.

Eye damage/irritation – Category 2A

H319 Causes serious eye irritation.

Carcinogenicity – Category 2

H351 Suspected of causing cancer.

Reproductive Toxicity - Category 2

H361 Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (single exposure) – Category 3 H336 May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) – Category 2

H373 May cause damage to the liver and the hearing organs through prolonged or repeated exposure.

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Aspiration hazard – Category 1

H304 May be fatal if swallowed and enters airways.

Aquatic Chronic 3

H412 Harmful to aquatic life with long lasting effects.

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

Hazard-determining components of labeling:

xylene
acetone
ethylbenzene
2-methoxy-1-methylethyl acetate

Hazard statements

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H336 May cause drowsiness or dizziness.
H373 May cause damage to the liver and the hearing organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground / bond container and receiving equipment.
P241 Use explosion-proof equipment.
P243 Take action to prevent static discharges.
P260 Do not breathe mist, vapors, or spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing, and eye protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P331 Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P308+P313 IF exposed or concerned: Get medical advice.
P312 Call a POISON CENTER or doctor if you feel unwell.
P332+P313 If skin irritation occurs: Get medical advice.
P337+P313 If eye irritation persists: Get medical advice.
P363 Wash contaminated clothing before reuse.
P370+P378 In case of fire: Use CO₂, powder or water spray to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents and container in accordance with local, regional, and national regulations.

· **Other hazards** Repeated exposure may cause skin dryness or cracking.

3 Composition/Information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

67-64-1	acetone	41% w/w
1330-20-7	xylene	19-22% w/w *
108-65-6	2-methoxy-1-methylethyl acetate	4-6% w/w *
100-41-4	ethylbenzene	4-5% w/w *
108-88-3	toluene	<0.5% w/w

* Actual concentration ranges are withheld as a trade secret.

4 First-aid measures

· **Description of first aid measures**

· **General information:**

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

· **After inhalation:**

If exposed or concerned: Get medical advice/attention.
Remove person to fresh air and keep comfortable for breathing.
If feeling unwell: Call a POISON CENTRE or doctor.

· **After skin contact:**

Wash with plenty water.
If skin irritation or rash occurs: Get medical advice or attention.
Take off contaminated clothing and wash it before reuse.
If exposed or concerned: Get medical advice or attention.

· **After eye contact:**

Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice or attention.

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· **After swallowing:**

Immediately call a POISON CENTRE/doctor.

Rinse mouth.

Do NOT induce vomiting.

A person vomiting while lying on their back should be turned onto their side.

If exposed or concerned: Get medical advice or attention.

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

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

· **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.

Prevent fire-fighting wash from entering waterway or sewer system.

Vapors are heavier than air. Vapors may travel to sources of ignition near the ground. They can cause flash fire or ignite explosively.

· **Hazardous combustion products:** Carbon Oxides (CO_x)

· **Advice for firefighters**

· **Protective equipment:** Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

6 Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Remove or keep away all sources of extreme heat or open flames.

Avoid breathing mist, spray, or vapors.

· **Environmental precautions:**

Avoid release to the environment.

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).

Collect liquid in a sealable, chemical-resistant container.

Wash residue with a paper towel and place dirty towels in container.

Use soap and water to remove the last traces of residue.

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· 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.
Wear protective gloves and eye protection.
Wash hands and exposed skin thoroughly after handling.
Take off contaminated clothing and wash it before reuse.
Use only outdoors or in a well-ventilated area.
Obtain, read and follow all safety instructions before use.
Do not breathe mist, vapours, spray.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
Use explosion-proof apparatus / fittings and spark-proof tools.
Ground and bond container and receiving equipment.

· Conditions for safe storage, including any incompatibilities

· Storage:

- **Requirements to be met by storerooms and receptacles:** Store in a well-ventilated place. Keep cool.
- **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.
 - Store locked up.

· Specific end use(s) See section 1.2

8 Exposure controls/ Personal protection

· Control parameters

· Components with limit values that require monitoring at the workplace:

67-64-1 acetone	
EL (Canada)	STEL: 500 ppm TWA: 250 ppm
EV (Canada)	STEL: 750 ppm TWA: 500 ppm
PEL (USA)	TWA: 2400 mg/m ³ , 1000 ppm

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REL (USA)	TWA: 590 mg/m ³ , 250 ppm
TLV (USA)	STEL: 1187 mg/m ³ , 500 ppm TWA: 594 mg/m ³ , 250 ppm A4, BEI
1330-20-7 xylene	
EL (Canada)	TWA: 20 ppm
EV (Canada)	STEL: 650 mg/m ³ , 150 ppm TWA: 435 mg/m ³ , 100 ppm
PEL (USA)	TWA: 435 mg/m ³ , 100 ppm
REL (USA)	STEL: 655 mg/m ³ , 150 ppm TWA: 435 mg/m ³ , 100 ppm
TLV (USA)	TWA: 20 ppm BEI, A4
108-65-6 2-methoxy-1-methylethyl acetate	
EL (Canada)	STEL: 75 ppm TWA: 50 ppm
EV (Canada)	TWA: 270 mg/m ³ , 50 ppm
WEEL (USA)	TWA: 50 ppm
100-41-4 ethylbenzene	
EL (Canada)	TWA: 20 ppm IARC 2B
EV (Canada)	STEL: 540 mg/m ³ , 125 ppm TWA: 435 mg/m ³ , 100 ppm
PEL (USA)	TWA: 435 mg/m ³ , 100 ppm
REL (USA)	STEL: 545 mg/m ³ , 125 ppm TWA: 435 mg/m ³ , 100 ppm
TLV (USA)	TWA: 20 ppm OTO, BEI, A3
108-88-3 toluene	
EL (Canada)	TWA: 20 ppm R
EV (Canada)	TWA: 20 ppm
PEL (USA)	TWA: 200 ppm Ceiling: 300; 500* ppm *10-min peak per 8-hr shift
REL (USA)	STEL: 560 mg/m ³ , 150 ppm TWA: 375 mg/m ³ , 100 ppm
TLV (USA)	TWA: 20 ppm BEI, OTO, A4
Ingredients with biological limit values:	
67-64-1 acetone	
BEI (USA)	25 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)

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1330-20-7 xylene	
BEI (USA)	0.3 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
100-41-4 ethylbenzene	
BEI (USA)	0.15 g/g creatinine Medium: urine Time: end of shift Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)
108-88-3 toluene	
BEI (USA)	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene 0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene 0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)

· **Additional information:**

The lists that were valid during the creation were used as basis.
Refer to the national or regional occupational exposure limit regulation for abbreviations and acronyms.

· **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.
Store protective clothing separately.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

· **Breathing equipment:**

Advice should be sought from respiratory protection specialists.
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.
If the product is heated or worker has a known allergic reaction, consider using a full mask with organic vapor cartridge or with an independent air supply.

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· **Protection of hands:**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves: EN374

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:**



Safety glasses or tightly sealed goggles: EN 166

9 Physical and chemical properties

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

· Physical state	Liquid
· Form:	Low viscosity
· Color:	Clear
· Odor:	Ether-like
· Odor threshold:	Not determined.
· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	≥56 °C (≥132.8 °F)
· Flammability:	Highly flammable.
· Explosion limits:	
· Lower:	1 Vol %
· Upper:	13 Vol %
· Flash point:	-17 °C (1.4 °F)
· Auto igniting:	315 °C (599 °F)
· Decomposition temperature:	Not determined.
· pH-value:	Not determined.
· Viscosity:	
· Kinematic at 40 °C (104 °F):	<20.5 mm ² /s
· Dynamic:	Not determined.

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<ul style="list-style-type: none"> · Solubility in / Miscibility with <ul style="list-style-type: none"> · Water: · Partition coefficient (n-octanol/water): · Vapor pressure at 20 °C (68 °F): · Relative density at 25 °C (77 °F): · Vapor density (air=1): · Particle characteristics 	<p>Partly miscible.</p> <p>Not determined.</p> <p>175 hPa (131.3 mm Hg)</p> <p>0.89</p> <p>>2</p> <p>Not applicable</p>
<ul style="list-style-type: none"> · Other information <ul style="list-style-type: none"> · Important information on protection of health and environment, and on safety. <ul style="list-style-type: none"> · Ignition temperature: · Danger of explosion: · Organic solvents: · VOC content: · Solids content: · Evaporation rate 	<p>Product is not selfigniting.</p> <p>Product is not explosive. However, formation of explosive air/vapor mixtures are possible.</p> <p>66.5—<74.5 %</p> <p>27.5—<33.5 %</p> <p>31—36 %</p> <p>Not determined.</p>

10 Stability and reactivity

- **Reactivity** Acetone reacts exothermically with phosphorous oxychloride, which can lead to an explosion.
- **Chemical stability** Chemically stable at normal temperatures and pressures.
 - **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Avoid open flames, excessive heat, sparks, ignition sources, and incompatible substances.
- **Incompatible materials:**

Strong bases

Strong oxidizing agents

Phosphorous oxychloride
- **Hazardous decomposition products:**

No dangerous decomposition products known.

Hazardous combustion products: see section 5.

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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)		
Dermal	LD50	5,000–5,789 mg/kg (rabbit)
Inhalative	LC50/4 h	41–48 mg/L
67-64-1 acetone		
Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	>7,426 mg/kg (rabbit)
Inhalative	LC50/ 3 h	132 mg/L (rat)
1330-20-7 xylene		
Oral	LD50	3,523 mg/kg (rat)
Dermal	LD50	1,100 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/L (rat)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	8,532 mg/kg (rat)
Dermal	LD/50	5 g/kg (rabbit)
Inhalative	LC50/4 h	35.7 mg/L (rat)
100-41-4 ethylbenzene		
Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	17,800 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/L (ATE)
108-88-3 toluene		
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/L (mouse)

· Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.

· Sensitization: No sensitizing effects known.

· Summary of effects and symptoms by route of exposure

· Eyes:

blurred vision
redness, serious irritation

· Skin: redness, irritation

· Inhalation: dizziness or drowsiness

· Swallowed:

abdominal pain
nausea, vomiting
burning sensation
see inhalation symptoms

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· **Delayed and immediate effects as well as chronic effects from short and long-term exposure**
Chronic inhalation exposure may affect the central nervous system and lead to hearing loss with co-exposure to loud noises.

· **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)		
1330-20-7	xylene	3
100-41-4	ethylbenzene	2B
108-88-3	toluene	3
· NTP (National Toxicology Program)		
None of the ingredients is listed.		

* 12 Ecological information

· **Toxicity**

· Aquatic toxicity:	
67-64-1 acetone	
EC50/ 48 h	13,500 mg/L (daphnia)
LC50 96h	5,540 mg/L (trout)
1330-20-7 xylene	
LC50 96h	2.5 mg/L (fish) category 2
100-41-4 ethylbenzene	
LC50 96h	4.2 mg/L (trout)
LC50/ 48 h	2.9 mg/L (daphnia)
108-88-3 toluene	
EC50/ 24 h	10 mg/L (algae)
	8.9 mg/L (water flea)
LC50 96h	7.63 mg/L (fish)

· **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.

· **vPvB:** Not applicable.

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- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
 - **Recommendation:** This material and its container must be disposed of as hazardous waste.
- **Uncleaned packagings:**
 - **Recommendation:**
Containers may still present a chemical hazard/ danger when empty.
Dispose of contents in accordance with all local, regional, national, and international regulations.
Where possible retain label warnings and SDS and observe all notices pertaining to the product.

14 Transport information

· UN-Number	
· DOT/TDG, IMDG, IATA	UN1263
· UN proper shipping name	
· DOT/TDG, IATA	Paint
· IMDG	PAINT
· Transport hazard class(es)	
· DOT/TDG (Transport dangerous goods):	
	
· Class	3 Flammable liquids
· Label	3
· IMDG, IATA	
	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT/TDG, IMDG, IATA	II

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· Environmental hazards:	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
 Limited Quantity 422B-55ML, 422B-1L, 422B-4L, 422BPX-4L	
· DOT/TDG	
· Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· IMDG	
· Limited quantities (LQ)	5L
· 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	Not applicable.
· Hazard identification number (Kemler code):	33
· EMS Number:	F-E, <u>S</u> -E
· Stowage Category	B
· UN "Model Regulation":	UN 1263 PAINT, 3, II

* 15 Regulatory information

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

· **OSHA Hazard Communication Standard (29 CFR Part 1900)**

The safety data sheet and label comply with HCS 2024.

· **Hazardous Products Act (R.S.C., 1985, c. H-3)**

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2023.

· **Sara**

· Section 355 (extremely hazardous substances):
None of the ingredients is listed.
· Section 313 (Specific toxic chemical listings):
1330-20-7 xylene
100-41-4 ethylbenzene
108-88-3 toluene

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· TSCA (Toxic Substances Control Act):		
All components have the value ACTIVE.		
· Hazardous Air Pollutants		
1330-20-7	xylene	
100-41-4	ethylbenzene	
108-88-3	toluene	
· Proposition 65		
· Chemicals known to cause cancer:		
100-41-4	ethylbenzene	
· 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:		
108-88-3	toluene	
· Carcinogenic categories		
· TLV (Threshold Limit Value)		
67-64-1	acetone	A4
1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
108-88-3	toluene	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		
· Canadian substance listings:		
· Canadian Domestic Substances List (DSL)		
All ingredients are listed.		
· Canadian Non-Domestic Substances List (NDSL)		
None of the ingredients is listed.		
· Canadian Ingredient Disclosure list (limit 0.1%)		
100-41-4	ethylbenzene	
· Canadian Ingredient Disclosure list (limit 1%)		
67-64-1	acetone	
· HMIS-ratings (scale 0 - 4)		
Health	= * 2	
Fire	= 3	
Reactivity	= 0	

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· Europe

· RoHS (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

· WEEE (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

· Per- and polyfluoroalkyl substances (PFAS)

None of the ingredients is listed.

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:** Regulatory department

· **Contact:** sds@mgchemicals.com

· **Version number of previous version:** 6.00

· **Date of preparation** 11/05/2025

· Abbreviations and acronyms:

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)

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

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

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