

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 3/1/2021 Revision date: 4/2/2025 Supersedes: 11/17/2023 Version: 4.0

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture

Trade name : Z-PLATE™ Aerosol

Vaporizer : Aerosol

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

No additional information available

1.4. Supplier's details

Supplier

Whitmore Manufacturing LLC 930 Whitmore Drive Rockwall, Texas, 75087 USA

T 1.972.771.1000

Regulatory@whitmores.com - www.jetlube.com

1.5. Emergency phone number

: For Chemical Emergency Call Ricardo Emergency Response 24hr/day 7days/week **Emergency number**

Within USA and Canada: +1.215.207.0061 Outside USA and Canada: +44.1235.239670

(collect calls accepted)

Country/Area	Organization/Company	Address	Emergency number	Comment
United States	Ricardo-United States		+1.866.928.0789 (toll-free, US only)	

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Aerosol, Category 1 H222;H229 Extremely flammable aerosol. Pressurized container; may burst

if heated.

Serious eye damage/eye irritation, Category 2A H319 Causes serious eye irritation. Skin sensitization, Category 1 H317 May cause an allergic skin reaction.

Full text of H statements: see section 16

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US)





Signal word (GHS US) : Danger

Hazard statements (GHS US) : H222 - Extremely flammable aerosol

H229 - Pressurized container; may burst if heated H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.

P261 - Avoid breathing dust, fume, gas, mist, vapors, spray. P264 - Wash hands, forearms and face thoroughly after handling.

P272 - Contaminated work clothing must not be allowed out of the workplace.

P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing

protection.

P302+P352 - If on skin: Wash with plenty of water.

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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 supplemental first aid instruction on this label). P333+P313 - If skin irritation or rash occurs: Get medical advice or attention. P337+P313 - If eye irritation persists: Get medical advice or attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 122 °F (50 °C). P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2 Mixtures

Name	Product identifier	%	GHS US classification
acetone	CAS-No.: 67-64-1	10 – 20	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Methyl ethyl ketone	CAS-No.: 78-93-3	5 – 10	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
methyl propyl ketone	CAS-No.: 107-87-9	2-5	Flam. Liq. 2, H225 Eye Irrit. 2A, H319
Aluminum (Note T)	CAS-No.: 7429-90-5	1 – 2	Acute Tox. 3 (Inhalation:dust,mist), H331
cobalt(II) 2-ethylhexanoate	CAS-No.: 136-52-7	0.19929 – 0.22995	Eye Irrit. 2, H319 Skin Sens. 1A, H317

Note T:

This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.

Full text of hazard classes and H-statements : see section 16

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after eye contact : Eye irritation.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Fire hazard : Extremely flammable aerosol.

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Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures : Exercise caution. Spill area may be slippery. No open flames, no sparks, and no smoking. Avoid

contact with skin and eyes.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer

to section 8: "Exposure controls/personal protection".

Environmental precautions : Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

For further information refer to section 13

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid contact with skin

and eyes. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including incompatibilities

Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a well-

ventilated place. Keep cool.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Local name

on Common parameters		
Aluminum (7429-90-5)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Aluminum metal and insoluble compounds	
ACGIH OEL TWA	1 mg/m³ (R - Respirable particulate matter)	
Remark (ACGIH)	TLV® Basis: Pneumoconiosis; LRT irr; neurotoxicity. Notations: A4 (Not classifiable as a Human Carcinogen)	
Regulatory reference ACGIH 2021		
USA - OSHA - Occupational Exposure Limits		
Local name	Aluminum Metal (as Al)	
OSHA PEL TWA	15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction)	
Regulatory reference (US-OSHA) OSHA Annotated Table Z-1		
methyl propyl ketone (107-87-9)		
USA - ACGIH - Occupational Exposure Limits		

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Methyl propyl ketone

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methyl propyl ketone (107-87-9)			
ACGIH OEL STEL	150 ppm		
Remark (ACGIH)	TLV® Basis: Pulm func; eye irr		
Regulatory reference	ACGIH 2021		
USA - OSHA - Occupational Exposure Lim	nits		
Local name	2-Pentanone (Methyl propyl ketone)		
OSHA PEL TWA	700 mg/m³		
	200 ppm		
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1		
acetone (67-64-1)			
USA - ACGIH - Occupational Exposure Lin	nits		
Local name	Acetone		
ACGIH OEL TWA	250 ppm		
ACGIH OEL STEL	500 ppm		
Remark (ACGIH)	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI		
Regulatory reference	ACGIH 2021		
USA - OSHA - Occupational Exposure Lim	its		
Local name	Acetone		
OSHA PEL TWA	2400 mg/m³		
	1000 ppm		
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1		
Methyl ethyl ketone (78-93-3)			
USA - ACGIH - Occupational Exposure Lin	nits		
Local name	Methyl ethyl ketone (MEK)		
ACGIH OEL TWA	200 ppm		
ACGIH OEL STEL	300 ppm		
Remark (ACGIH)	TLV® Basis: URT irr; CNS & PNS impair. Notations: BEI		
Regulatory reference	ACGIH 2021		
USA - OSHA - Occupational Exposure Limits			
Local name	2-Butanone (Methyl ethyl ketone)		
OSHA PEL TWA	590 mg/m³		
	200 ppm		
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1		
8.2. Appropriate engineering controls Appropriate engineering controls	: Ensure good ventilation of the work station.		
Environmental exposure controls	: Avoid release to the environment.		
	uch as personal protective equipment		

Materials for protective clothing:
Wear protective clothing
Hand protection:
Neoprene or nitrile rubber gloves

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Туре	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR)	6 (> 480 minutes)	> 0.6 mm	
Eye protection:	Eye protection:			
Wear eye protection				
Skin and body protectio	Skin and body protection:			
Wear suitable protective clothing				
Respiratory protection:				
Wear appropriate mask				

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state : Liquid Appearance : Aerosols. Color : Gray Odor : solvent-like Odor threshold : No data available : No data available pН Melting point : Not applicable Freezing point : No data available : No data available Boiling point

Flash point : -16 °C

Flammability (solid, gas) : Extremely flammable aerosol.

Vapor pressure : No data available Relative vapor density at 20°C : No data available Relative density : No data available Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available **Explosion limits** : No data available Particle characteristics : No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

VOC content : 504 g/l

SECTION 10 Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

cobalt(II) 2-ethylhexanoate (136-52-7)

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SECTION 11 Toxicological information				
11.1. Information on toxicological effects				
, (, , ,	: Not classified			
cute toxicity (dermal) : Not classified cute toxicity (inhalation) : Not classified				
• • •				
Aluminum (7429-90-5)	45000 staller had weight Aginal set Ovidalia of OFOD Ovidalia 404 (Aguta Oral Tavisia)			
LD50 oral rat	> 15900 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)			
LC50 Inhalation - Rat	> 0.888 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)			
LC50 Inhalation - Rat (Dust/Mist)	> 0.888 mg/l Source: ECHA			
ATE US (dust, mist)	0.5 mg/l/4h			
methyl propyl ketone (107-87-9)				
LD50 oral rat	1600 – 3200 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)			
LC50 Inhalation - Rat	> 25.5 mg/l air Animal: rat, Guideline: OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class Method)			
ATE US (oral)	1600 mg/kg body weight			
cobalt(II) 2-ethylhexanoate (136-52-7)				
LD50 oral rat	3129 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), 95% CL: 1750 - 5000			
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)			
LC50 Inhalation - Rat	> 2000 mg/kg			
ATE US (oral)	3129 mg/kg body weight			
acetone (67-64-1)				
LD50 oral rat	5800 mg/kg body weight Animal: rat, Animal sex: female			
LD50 dermal rabbit	20000 mg/kg (Equivalent or similar to OECD 402, Rabbit, Male, Experimental value, Dermal)			
LC50 Inhalation - Rat	76 mg/l air Animal: rat, Animal sex: female, 95% CL: 65,2 - 88,4			
LC50 Inhalation - Rat (Vapors)	76 mg/l Source: ECHA			
ATE US (oral)	5800 mg/kg body weight			
ATE US (dermal)	20000 mg/kg body weight			
Methyl ethyl ketone (78-93-3)				
LD50 oral rat	2193 mg/kg body weight (Equivalent or similar to OECD 423, Rat, Male / female, Read-across, Oral)			
LD50 dermal rabbit	> 10 ml/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal)			
LC50 Inhalation - Rat (Vapors)	34.5 mg/l/4h			
ATE US (oral)	2193 mg/kg body weight			
ATE US (vapors)	34.5 mg/l/4h			
Skin corrosion/irritation :	Not classified			
methyl propyl ketone (107-87-9)				
рН	No data available in the literature			
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6.8 (4.03 %, 20 °C, OECD 105: Water Solubility)

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acetone (67-64-1)			
рН	7 (10 g/l)		
Serious eye damage/irritation	: Causes serious eye irritation.		
methyl propyl ketone (107-87-9)			
рН	No data available in the literature		
cobalt(II) 2-ethylhexanoate (136-52-7)			
рН	6.8 (4.03 %, 20 °C, OECD 105: Water Solubility)		
acetone (67-64-1)			
рН	7 (10 g/l)		
Respiratory or skin sensitization	: May cause an allergic skin reaction.		
Germ cell mutagenicity	: Not classified		
Carainaganisity	. Not closeified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
Aluminum (7429-90-5)			
NOAEL (animal/male, F0/P)	1000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)		
acetone (67-64-1)			
LOAEL (animal/female, F0/P)	11298 mg/kg body weight Animal: mouse, Animal sex: female		
NOAEL (animal/male, F0/P)	900 mg/kg body weight Animal: rat, Animal sex: male, Remarks on results: other:Generation not specified (migrated information)		
STOT-single exposure	: Not classified		
acetone (67-64-1)			
STOT-single exposure	May cause drowsiness or dizziness.		
Methyl ethyl ketone (78-93-3)			
STOT-single exposure	May cause drowsiness or dizziness.		
STOT-repeated exposure	: Not classified		
Aluminum (7429-90-5)			
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.05 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)		
Aspiration hazard	: Not classified		
Z-PLATE™ Aerosol			
Vaporizer	Aerosol		
Aluminum (7429-90-5)			
Viscosity, kinematic	Not applicable (solid)		
methyl propyl ketone (107-87-9)			
Viscosity, kinematic	No data available in the literature		
acetone (67-64-1)	acetone (67-64-1)		
Viscosity, kinematic	0.417 mm²/s		

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Aluminum (7429-90-5)		
Methyl ethyl ketone (78-93-3)		
Viscosity, kinematic 0.494 mm²/s		
Symptoms/effects after eye contact	: Eye irritation.	

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term

(acute) Hazardous to the aquatic environment, long-term

: Not classified

: Not classified

(chronic)

previous names: revious names:
revious names:
(previous names:
hneriella subcapitata,
Fresh water, Read-
n, Fresh water, Read-
Fresh water, Read-
eriella subcapitata, Static
h water, Experimental
Experimental value,
(previous names:
(previous names:

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Methyl ethyl ketone (78-93-3)		
ErC50 algae	1972 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)	
NOEC chronic algae	93 mg/l	
12.2. Persistence and degradability		
Z-PLATE™ Aerosol		
Persistence and degradability	Not rapidly degradable	
Aluminum (7429-90-5)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
methyl propyl ketone (107-87-9)		
Persistence and degradability	Biodegradable in the soil, Readily biodegradable in water.	
cobalt(II) 2-ethylhexanoate (136-52-7)		
Persistence and degradability	Readily biodegradable in water.	
acetone (67-64-1)		
Persistence and degradability	Biodegradable in the soil, Biodegradable in the soil under anaerobic conditions, Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	1.43 g O ₂ /g substance	
Chemical oxygen demand (COD)	1.92 g O ₂ /g substance	
ThOD	2.2 g O ₂ /g substance	
BOD (% of ThOD)	0.872 (20 day(s), Literature study)	
Methyl ethyl ketone (78-93-3)		
Persistence and degradability	Biodegradable in the soil, Biodegradable in the soil under anaerobic conditions, Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	2.03 g O ₂ /g substance	
Chemical oxygen demand (COD)	2.31 g O ₂ /g substance	
ThOD	2.44 g O ₂ /g substance	
12.3. Bioaccumulative potential		
methyl propyl ketone (107-87-9)		
Partition coefficient n-octanol/water (Log Pow)	0.857 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
cobalt(II) 2-ethylhexanoate (136-52-7)		
BCF - Fish [1]	1.2 (131 day(s), Seriola quinqueradiata, Static system, Salt water, Read-across, Fresh weight)	
Partition coefficient n-octanol/water (Log Pow)	2.96 Source: ECHA	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
acetone (67-64-1)		
BCF - Fish [1]	0.69 (Pisces)	
BCF - Other aquatic organisms [1]	3 (BCFWIN, Calculated value)	
Partition coefficient n-octanol/water (Log Pow)	-0.24 (Test data)	

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acetone (67-64-1)	
Bioaccumulative potential	Not bioaccumulative.
Methyl ethyl ketone (78-93-3)	
Partition coefficient n-octanol/water (Log Pow)	0.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 40 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
12.4. Mobility in soil	
Aluminum (7429-90-5)	
Surface tension	900 mN/m (700 °C)
Ecology - soil	Adsorbs into the soil.
methyl propyl ketone (107-87-9)	
Surface tension	23.87 mN/m (20 °C, 100 %, EU Method A.5: Surface tension)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.915 – 1.624 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.
cobalt(II) 2-ethylhexanoate (136-52-7)	
Surface tension	0.064 N/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)
Ecology - soil	No (test) data on mobility of the substance available.
acetone (67-64-1)	
Surface tension	0.0237 N/m
Ecology - soil	No (test) data on mobility of the substance available.
Methyl ethyl ketone (78-93-3)	
Surface tension	0.024 N/m (20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.53 (log Koc, Calculated value)
Ecology - soil	Highly mobile in soil. Slightly harmful to plants.
12.5. Other adverse effects	
Ozone	: Not classified
Fluorinated greenhouse gases	: No

Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
UN1950	UN1950	1950	1950
14.2. Proper Shipping Name			
Aerosols, flammable, n.o.s.	AEROSOLS	AEROSOLS (MIXTURE)	Aerosols, flammable (MIXTURE)
Transport document description			
UN1950 Aerosols, flammable, n.o.s., 2.1	UN1950 AEROSOLS, 2.1	UN 1950 AEROSOLS (MIXTURE), 2.1, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1950 Aerosols, flammable (MIXTURE), 2.1, ENVIRONMENTALLY HAZARDOUS

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DOT	TDG	IMDG	IATA
14.3. Transport hazard class(es)			
2.1	2.1	2.1	2.1
PLANMABLE GAS	2	2	2
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes
No supplementary information available			

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

UN-No. (DOT) : UN1950

DOT Special Provisions (49 CFR 172.102) : N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.

DOT Packaging Exceptions (49 CFR 173.xxx) : 306

DOT Packaging Non Bulk (49 CFR 173.xxx) : 304

DOT Quantity Limitations Passenger aircraft/rail : Forbidden (49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

: 150 kg

DOT Vessel Stowage Other : 25 - Protected from sources of heat,87 - Stow "separated from" Class 1 (explosives) except

Division 14,126 - Segregation same as for Class 9, miscellaneous hazardous materials

TDG

UN-No. (TDG) : UN1950

TDG Special Provisions : 80 - Despite section 1.17 of Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases), a person must not offer for transport or transport these

dangerous goods unless they are in a means of containment that is in compliance with the requirements for transporting gases in Part 5 (Means of Containment),107 - (1) These Regulations, except for Parts 1 and 2, do not apply to the offering for transport, handling or transport of UN1950, AEROSOLS, and UN2037, GAS CARTRIDGES, that contain dangerous goods included in Class 2.1 or Class 2.2 and that are transported on a road vehicle, a railway vehicle or a vessel on a domestic voyage, if the aerosols or gas cartridges have a capacity less

than or equal to 50 mL.

(2) Subsection (1) does not apply to self-defence spray.

Explosive Limit and Limited Quantity Index : 1 L
Excepted quantities (TDG) : E0

Passenger Carrying Road Vehicle or Passenger

Carrying Railway Vehicle Index

: E0 : 75 L

IMDG

Special provision (IMDG) : 63, 190, 277, 327, 344, 381, 959

Limited quantities (IMDG) : SP277
Excepted quantities (IMDG) : E0

Packing instructions (IMDG) : P207, LP200
Packing provisions (IMDG) : PP87, L2

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EmS-No. (Fire) : F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES

EmS-No. (Spillage) : S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE)

Stowage category (IMDG) : None
Stowage and handling (IMDG) : SW1, SW22
Segregation (IMDG) : SG69

IATA

Special provision (IATA) : A145, A167, A802

PCA Excepted quantities (IATA) : E0 PCA Limited quantities (IATA) : Y203 PCA limited quantity max net quantity (IATA) : 30kgG PCA packing instructions (IATA) : 203 PCA max net quantity (IATA) : 75kg CAO packing instructions (IATA) : 203 CAO max net quantity (IATA) : 150kg ERG code (IATA) : 10L

SECTION 15 Regulatory information

15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Aluminum	CAS-No. 7429-90-5	1 – 2%
Zinc	CAS-No. 7440-66-6	20 – 40%
Xylene	CAS-No. 1330-20-7	17.8513908 – 19.8932008%
Ethylbenzene	CAS-No. 100-41-4	0.1293852 – 1.1316752%

acetone (67-64-1)	
CERCLA RQ	5000 lb

Methyl ethyl ketone (78-93-3)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	5000 lb

15.2. International regulations

CANADA

Aluminum (7429-90-5)

Listed on the Canadian DSL (Domestic Substances List)

methyl propyl ketone (107-87-9)

Listed on the Canadian DSL (Domestic Substances List)

cobalt(II) 2-ethylhexanoate (136-52-7)

Listed on the Canadian DSL (Domestic Substances List)

acetone (67-64-1)

Listed on the Canadian DSL (Domestic Substances List)

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Methyl ethyl ketone (78-93-3)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Aluminum (7429-90-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

methyl propyl ketone (107-87-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

cobalt(II) 2-ethylhexanoate (136-52-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

acetone (67-64-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Aluminum (7429-90-5)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

methyl propyl ketone (107-87-9)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

cobalt(II) 2-ethylhexanoate (136-52-7)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

acetone (67-64-1)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

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Methyl ethyl ketone (78-93-3)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

15.3. State regulations

WARNING:

This product can expose you to chemicals including Methyl isobutyl ketone, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
Aluminum(7429-90-5)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
Zinc(7440-66-6)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
calcium oxide(1305-78-8)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
calcium carbonate(471-34-1)	U.S Massachusetts - Right To Know List
magnesium oxide(1309-48-4)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
calcium sulfate(7778-18-9)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
quartz, 1%≤conc respirable crystalline silica<10%(14808-60-7)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
methyl propyl ketone(107-87-9)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
Xylene(1330-20-7)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
Methyl isobutyl ketone(108-10-1)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
Ethylbenzene(100-41-4)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
toluene(108-88-3)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
Cumene(98-82-8)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List

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Component	State or local regulations
butyl glycolether(111-76-2)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
cyclohexane(110-82-7)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
N-methyl-2-pyrrolidone(872-50-4)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
2-ethyl hexanoic acid(149-57-5)	U.S New Jersey - Right to Know Hazardous Substance List
Diethylene glycol(111-46-6)	U.S Pennsylvania - RTK (Right to Know) List
acetone(67-64-1)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
Methyl ethyl ketone(78-93-3)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
Diethylethanolamine(100-37-8)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
LPG, liquefied, under pressure(68476-85-7)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16 Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 4/2/2025 Issue date : 3/1/2021

Full text of hazard classes and H-statements	
H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapor
H229	Pressurized container; may burst if heated
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H331	Toxic if inhaled
H336	May cause drowsiness or dizziness

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.