

Safety Data Sheet

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

Date of issue: 05/10/2019 Revision date: 05/10/2019 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : Custom 8260 Solution

AL0-130724 Product code

1.2. Recommended use and restrictions on use

No additional information available

Phenova

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Golden, CO 80403 - United States T 1-866-942-2978 - F 1-866-283-0269 info@phenova.com - www.phenova.com

1.4. Emergency telephone number

Emergency number : ChemTel Assistance (US/Canada) 1-800-255-3924

ChemTel Assistance (International) +1 813-248-0585

SECTION 2: Hazard(s) identification

GHS-US classification

Flammable liquids H225 Highly flammable liquid and vapour

Category 2

Acute toxicity (oral) H301 Toxic if swallowed

Category 3

Acute toxicity (dermal) H311 Toxic in contact with skin

Category 3

Skin sensitization, Category H317 May cause an allergic skin reaction

Carcinogenicity Category H350

Specific target organ

toxicity (single exposure)

Category 1

Full text of H statements : see section 16

Causes damage to organs

May cause cancer

GHS Label elements, including precautionary statements

H370

GHS-US labeling

Hazard pictograms (GHS-US)









Signal word (GHS-US) : Danger

: H225 - Highly flammable liquid and vapour Hazard statements (GHS-US)

H301+H311 - Toxic if swallowed or in contact with skin

H317 - May cause an allergic skin reaction

H350 - May cause cancer

: P201 - Obtain special instructions before use. Precautionary statements (GHS-US)

P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 - Keep container tightly closed.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product.

P272 - Contaminated work clothing must not be allowed out of the workplace P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 - If swallowed: Immediately call a poison center or doctor

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

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P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

P307+P311 - If exposed: Call a poison center/doctor

P308+P313 - If exposed or concerned: Get medical advice/attention.

P312 - Call a poison center or doctor if you feel unwell

P321 - Specific treatment (see supplemental first aid instruction on this label)
P322 - Specific treatment (see supplemental first aid instruction on this label)

P330 - Rinse mouth.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P361+P364 - Take off immediately all contaminated clothing and wash it before reuse.

P363 - Wash contaminated clothing before reuse.

P370+P378 - In case of fire: Use media other than water to extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	Conc.
methanol (Component)	(CAS-No.) 67-56-1	98.4
acrylonitrile, inhibited (Component)	(CAS-No.) 107-13-1	0.2
1,4-dichloro-2-butene, trans- (Component)	(CAS-No.) 110-57-6	0.2
iodomethane (Component)	(CAS-No.) 74-88-4	0.2
4-Methyl-2-Pentanone (Component)	(CAS-No.) 108-10-1	0.2

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

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get

medical advice/attention.

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms

: Based on available data, the classification criteria are not met.

Symptoms/effects

: Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

No additional information available

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5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up in absorbent material. Collect spillage.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapor.

Hygiene measures : Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated

clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Keep container tightly closed and in a well-ventilated

place. Keep away from any flames or sparking source.

Incompatible materials : Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Custom 8260 Solution		
ACGIH	Local name	Methanol
ACGIH	ACGIH TWA (ppm)	200 ppm
ACGIH	ACGIH STEL (ppm)	250 ppm
ACGIH	Remark (ACGIH)	Headache; eye dam; dizziness; nausea
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m³)	260 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA

acrylonitrile, inhibited (107-13-1)		
ACGIH	Local name	Acrylonitrile
ACGIH	ACGIH TWA (ppm)	2 ppm
ACGIH	Remark (ACGIH)	CNS impair; LRT irr
ACGIH	Regulatory reference	ACGIH 2018

1,4-dichloro-2-butene, trans- (110-57-6)		
ACGIH	ACGIH TWA (ppm)	0.005 ppm

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iodomethane (74-8	8-4)	
ACGIH	Local name	Methyl iodide
ACGIH	ACGIH TWA (ppm)	2 ppm
ACGIH	Remark (ACGIH)	Eye dam; CNS impair
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m³)	28 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	5 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
4-Methyl-2-Pentan	one (108-10-1)	
ACGIH	Local name	Methyl isobutyl ketone
ACGIH	ACGIH TWA (ppm)	20 ppm (Methyl isobutyl ketone; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	ACGIH STEL (ppm)	75 ppm (Methyl isobutyl ketone; USA; Short time value; TLV - Adopted Value)
ACGIH	Remark (ACGIH)	URT irr; dizziness; headache
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m³)	410 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
methanol (67-56-1)	·	
ACGIH	Local name	Methanol
ACGIH	ACGIH TWA (ppm)	200 ppm (Methanol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	ACGIH STEL (ppm)	250 ppm (Methanol; USA; Short time value; TLV - Adopted Value)
ACGIH	Remark (ACGIH)	Headache; eye dam; dizziness; nausea
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m³)	260 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
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8.2. Appropriate engineering controls

Appropriate engineering controls

: Either local exhaust or general room ventilation is usually required.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety glasses.

Hand protection:

Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration

Eye protection:

Chemical goggles or safety glasses. Safety glasses

Skin and body protection:

Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact

Respiratory protection:

Wear appropriate mask

Personal protective equipment symbol(s):

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Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Color Colorless : characteristic Odor Odor threshold : No data available No data available Melting point : No data available : No data available Freezing point : No data available Boiling point Flash point : No data available Relative evaporation rate (butyl acetate=1) No data available Flammability (solid, gas) : Non flammable. Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density : No data available Solubility No data available : No data available Log Pow : No data available Auto-ignition temperature Decomposition temperature : No data available : No data available Viscosity, kinematic Viscosity, dynamic No data available : No data available **Explosion limits** : No data available Explosive properties

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Oxidizing properties

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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: No data available

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Acute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin.
Custom 8260 Solution	
ATE US (oral)	101.626 mg/kg body weight
ATE US (dermal)	304.878 mg/kg body weight
acrylonitrile, inhibited (107-13-1)	
LD50 oral rat	95 mg/kg body weight (Rat, Female, Experimental value, Oral)
LD50 dermal rat	> 200 mg/kg body weight (4 h, Rat, Male / female, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	2.05 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))
ATE US (oral)	95 mg/kg body weight
ATE US (dermal)	300 mg/kg body weight
ATE US (gases)	700 ppmV/4h
ATE US (vapors)	2.05 mg/l/4h
ATE US (dust, mist)	2.05 mg/l/4h
1,4-dichloro-2-butene, trans- (110-57-6)	
ATE US (oral)	100 mg/kg body weight
ATE US (dermal)	300 mg/kg body weight
ATE US (gases)	100 ppmV/4h
ATE US (vapors)	0.5 mg/l/4h
ATE US (dust, mist)	0.05 mg/l/4h
iodomethane (74-88-4)	
LD50 oral rat	80 - 132 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 inhalation rat (mg/l)	4.07 mg/l (EPA OPPTS 870.1300: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))
ATE US (oral)	80 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight
ATE US (gases)	700 ppmV/4h
ATE US (vapors)	4.07 mg/l/4h
ATE US (dust, mist)	4.07 mg/l/4h
4-Methyl-2-Pentanone (108-10-1)	
LD50 oral rat	2080 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rat	>= 2000 mg/kg body weight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
LD50 dermal rabbit	> 16000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	8.2- 16.4,Rat; Experimental value
LC50 inhalation rat (ppm)	2000 - 4000 ppm/4h (Rat; Experimental value)
ATE US (oral)	2080 mg/kg body weight
ATE US (gases)	2000 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
methanol (67-56-1)	
LD50 oral rat	> 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight of evidence)
LD50 dermal rabbit	15800 mg/kg (Rabbit; Literature study)
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	64000 ppm/4h (Rat; Literature study)
ATE US (oral)	100 mg/kg body weight
ATE US (dermal)	300 mg/kg body weight
ATE US (gases)	700 ppmV/4h
ATE US (vapors)	3 mg/l/4h
ATE US (dust, mist)	0.5 mg/l/4h
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
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Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

: May cause cancer. Carcinogenicity

acrylonitrile, inhibited (107-13-1)	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen

4-Methyl-2-Pentanone (108-10-1)

IARC group 2B - Possibly carcinogenic to humans Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity - single exposure : Causes damage to organs.

Specific target organ toxicity - repeated

exposure

: Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

: Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 12: Ecological information

Symptoms/effects

acrylonitrile, inhibited (107-13-1)	
LC50 fish 1	8.6 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinodon variegatus, Semi-static system, Salt water, Experimental value, GLP)
EC50 Daphnia 1	7.6 - 22 mg/l (48 h, Daphnia magna, No reliable data available)
ErC50 (algae)	14.1 ppm (Other, 72 h, Skeletonema costatum, Static system, Salt water, Experimental value, GLP)

iodomethane (74-88-4)	
LC50 fish 1	1.4 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, GLP)
ErC50 (algae)	2.55 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

4-Methyl-2-Pentanone (108-10-1)	
LC50 fish 1	600 mg/l (96 h, Salmo gairdneri, Fresh water, Literature study)
EC50 Daphnia 1	> 200 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
LC50 fish 2	> 179 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, GLP)

methanol (67-56-1)	
LC50 fish 1	15400 mg/l (LC50; EPA 660/3 - 75/009; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)
EC50 Daphnia 1	> 10000 mg/l (EC50; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
LC50 fish 2	10800 mg/l (LC50; 96 h; Salmo gairdneri)

Persistence and degradability

Custom 8260 Solution	
Persistence and degradability	Not established.
acrylonitrile, inhibited (107-13-1)	
Persistence and degradability	Biodegradable in the soil. Inherently biodegradable. Not readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.72 g O₂/g substance
Chemical oxygen demand (COD)	1.39 g O₂/g substance

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	<u> </u>				
acrylonitrile, inhibited (107-13-1)					
ThOD	3.17 g O₂/g substance				
iodomethane (74-88-4)					
ersistence and degradability Not readily biodegradable in water.					
4-Methyl-2-Pentanone (108-10-1)					
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Low potential for adsorption in soil. Photolysis in the air.				
Biochemical oxygen demand (BOD)	2.06 g O₂/g substance				
Chemical oxygen demand (COD)	2.16 g O₂/g substance				
ThOD	2.72 g O₂/g substance				
BOD (% of ThOD)	0.76				
methanol (67-56-1)					
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.				
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O₂/g substance				
Chemical oxygen demand (COD)	1.42 g O₂/g substance				
ThOD	1.5 g O₂/g substance				
BOD (% of ThOD)	0.8 (Literature study)				
2.3. Bioaccumulative potential					
Custom 8260 Solution					
Bioaccumulative potential	Not established.				
acrylonitrile, inhibited (107-13-1)					
BCF fish 1	48 (672 h, Lepomis macrochirus, Fresh water, Literature study)				
Log Pow	1.02 - 1.05 (Experimental value, EU Method A.8: Partition Coefficient, 21 °C)				
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).				
1,4-dichloro-2-butene, trans- (110-57-6)					
Log Pow	2.11 - 2.6 (QSAR)				
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).				
iodomethane (74-88-4)					
Log Pow	1.57 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)				
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).				
4-Methyl-2-Pentanone (108-10-1)					
BCF fish 1	2 - 5 (BCF)				
Log Pow	1.9 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method)				
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).				
methanol (67-56-1)					
BCF fish 1	< 10 (BCF; 72 h; Leuciscus idus)				
Log Pow	-0.77 (Experimental value; Other)				
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).				
2.4. Mobility in soil					
acrylonitrile, inhibited (107-13-1)					
	26.6 mN/m (25 °C)				
Surface tension	Ecology - soil No (test)data on mobility of the substance available.				
Ecology - soil	No (test)data on mobility of the substance available.				
Ecology - soil 1,4-dichloro-2-butene, trans- (110-57-6)					
Ecology - soil 1,4-dichloro-2-butene, trans- (110-57-6) Surface tension	0.024 N/m (20 °C)				
Ecology - soil 1,4-dichloro-2-butene, trans- (110-57-6)					

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iodomethane (74-88-4)				
Log Koc	1.15 - 1.79 (log Koc, OECD 106: Adsorption/Desorption Using a Batch Equilibrium Method, Experimental value, GLP)			
Ecology - soil	Highly mobile in soil.			
4-Methyl-2-Pentanone (108-10-1)				
Surface tension	0.024 N/m (20 °C)			
Log Koc	Koc,101.85; Weight of evidence; Calculated value; log Koc; 2.008; Weight of evidence; Calculated value			
Ecology - soil	Low potential for adsorption in soil.			
methanol (67-56-1)				
Surface tension	0.023 N/m (20 °C)			
Log Koc	Koc,PCKOCWIN v1.66; 1; Calculated value			

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1992 Flammable liquids, toxic, n.o.s. (methanol; acrylonitrile, inhibited; 1,4-dichloro-2-

butene, trans-), 3 (6.1), II

UN-No.(DOT) : UN1992

Proper Shipping Name (DOT) : Flammable liquids, toxic, n.o.s.

methanol; acrylonitrile, inhibited; 1,4-dichloro-2-butene, trans-

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Packing group (DOT) : II - Medium Danger

Subsidiary risk (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132

Hazard labels (DOT) : 3 - Flammable liquid 6.1 - Poison



DOT Packaging Non Bulk (49 CFR 173.xxx) : 202 DOT Packaging Bulk (49 CFR 173.xxx) : 243

DOT Symbols : G - Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)

: IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

TP13 - Self-contained breathing apparatus must be provided when this hazardous material is

transported by sea.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Quantity Limitations Passenger aircraft/rail : 1 L

(49 CFR 173.27)

DOT Vessel Stowage Location

- - -

131

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

Emergency Response Guide (ERG) Number

Other information : No supplementary information available.

Transportation of Dangerous Goods

Not applicable

Transport by sea

Transport document description (IMDG) : UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S., 3 (6.1), II

UN-No. (IMDG) : 1992

Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, TOXIC, N.O.S.

Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : II - substances presenting medium danger

Subsidiary risks (IMDG) : 6.1 - Toxic substances

Air transport

Transport document description (IATA) : UN 1992 Flammable liquid, toxic, n.o.s., 3 (6.1), II

UN-No. (IATA) : 1992

Proper Shipping Name (IATA) : Flammable liquid, toxic, n.o.s.

Class (IATA) : 3 - Flammable Liquids

Packing group (IATA) : II - Medium Danger

Subsidiary risks (IATA) : 6.1 - Toxic substances

SECTION 15: Regulatory information

15.1. US Federal regulations

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acrylonitrile, inhibited (107-13-1)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313				
Listed on EPA Hazardous Air Pollutant (HAPS)				
EPA TSCA Regulatory Flag	TP - TP - indicates a substance that is the subject of a proposed TSCA section 4 test rule.			
CERCLA RQ	100 lb			
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb			
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb			
1,4-dichloro-2-butene, trans- (110-57-6)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313				
RQ (Reportable quantity, section 304 of EPA's List of Lists)	500 lb			
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb			
iodomethane (74-88-4)				
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State				
Listed on EPA Hazardous Air Pollutant (HAPS)				
CERCLA RQ	100 lb			
4-Methyl-2-Pentanone (108-10-1)				
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State				
Listed on EPA Hazardous Air Pollutant (HAPS)				
CERCLA RQ	5000 lb			
methanol (67-56-1)				
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State				
Listed on EPA Hazardous Air Pollutant (HAPS)				
CERCLA RQ	5000 lb			

15.2. International regulations

CANADA

acrylonitrile, inhibited (107-13-1)

Listed on the Canadian DSL (Domestic Substances List)

1,4-dichloro-2-butene, trans- (110-57-6)

Listed on the Canadian NDSL (Non-Domestic Substances List)

iodomethane (74-88-4)

Listed on the Canadian DSL (Domestic Substances List)

4-Methyl-2-Pentanone (108-10-1)

Listed on the Canadian DSL (Domestic Substances List)

methanol (67-56-1)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

acrylonitrile, inhibited (107-13-1)

Listed on IARC (International Agency for Research on Cancer)

Listed as carcinogen on NTP (National Toxicology Program)

Listed on EPA Hazardous Air Pollutant (HAPS)

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iodomethane (74-88-4)

Listed on EPA Hazardous Air Pollutant (HAPS)

4-Methyl-2-Pentanone (108-10-1)

Listed on IARC (International Agency for Research on Cancer) Listed on EPA Hazardous Air Pollutant (HAPS)

methanol (67-56-1)

Listed on EPA Hazardous Air Pollutant (HAPS)

acrylonitrile, inl	hibited (107-13-1)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No	0.7 μg/day	
iodomethane (7	74-88-4)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		
4-Methyl-2-Pent	tanone (108-10-1)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	Yes	No	No		
methanol (67-56	6-1)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
No	Yes	No	No		47000 μg/day (inhalation); 23,000 μg/day (oral)

SECTION 16: Other information

: 05/10/2019 Revision date

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE Data sources

COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information : None.

Full text of H-phrases:

text of 11-philases.		
H225	Highly flammable liquid and vapour	
H301	Toxic if swallowed	
H311	Toxic in contact with skin	
H317	May cause an allergic skin reaction	
H350	May cause cancer	
H370	Causes damage to organs	

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