



Pang Activator

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 3/13/2024 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : Pang Activator
Product code : 968F

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Hardener
Restrictions on use : No additional information available

1.3. Supplier

Manufacturer

Tech International
200 East Coshocton Street
Johnstown, OH 43031, USA
1-740-967-9015
www.tech-international.com

1.4. Emergency telephone number

Emergency number : CHEMTREC
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1-703-527-3887
Local: +1 703-741-5970

SECTION 2: Hazard(s) identification



2.1. Classification of the substance or mixture

GHS US classification

Flammable liquids Category 2 H225 Highly flammable liquid and vapor
Specific target organ toxicity – Single exposure, Category 3, Narcosis H336 May cause drowsiness or dizziness
Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :  

Signal word (GHS US) : Danger

Hazard statements (GHS US) : H225 - Highly flammable liquid and vapor
H336 - May cause drowsiness or dizziness

Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 - Ground/Bond container and receiving equipment.
P241 - Use explosion-proof electrical, ventilating, lighting equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P261 - Avoid breathing vapors.
P271 - Use only outdoors or in a well-ventilated area.

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P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P312 - Call a POISON CENTER, a doctor if you feel unwell.
P370+P378 - In case of fire: Use carbon dioxide (CO₂), alcohol resistant foam, extinguishing powder to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P233 - Keep container tightly closed.
P405 - Store locked up.
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)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of § 1910.1200

Name	Product identifier	%	GHS US classification
Ethyl acetate	CAS-No.: 141-78-6	≥ 60 – < 80	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Tris(p-isocyanatophenyl) thiophosphate	CAS-No.: 4151-51-3	≥ 25 – < 40	Acute Tox. 4 (Oral), H302
Chlorobenzene	CAS-No.: 108-90-7	< 1	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Aquatic Chronic 2, H411

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 after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. If experiencing respiratory symptoms: Call a poison center or a doctor.

First-aid measures after skin contact : Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately and thoroughly with polyethylene glycol, followed by plenty of water. Get medical attention if symptoms occur.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist if irritation persists.

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First-aid measures after ingestion : Do not induce vomiting. Rinse mouth out with water. Never give anything by mouth to an unconscious person. Get medical advice/attention.

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

Symptoms/effects after inhalation : May cause drowsiness or dizziness. In high concentrations vapors cause anesthetic and narcotic effect. Asthmatic complaints. May cause shortness of breath, tightness of the chest, a sore throat and cough.

Symptoms/effects after skin contact : Repeated exposure may cause skin dryness or cracking. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. Skin rash/inflammation.

Symptoms/effects after eye contact : Redness, itching, tears.

Symptoms/effects after ingestion : May be harmful if swallowed. Ingestion may cause nausea, vomiting and diarrhea.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Carbon dioxide. Foam. Dry powder. Water spray. Use extinguishing agent suitable for surrounding fire.

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

5.2. Specific hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapor. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors. Heating will cause a rise in pressure with a risk of bursting. In case of fire and/or explosion do not breathe fumes.

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Nitrogen oxides. Hydrogen cyanide.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Evacuate the danger area. Eliminate all ignition sources if safe to do so. Move containers from fire area if it can be done without personal risk. Use water spray or fog for cooling exposed containers. Fight fire from safe distance and protected location. Use extinguishing media appropriate for surrounding fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : No flames, no sparks. Eliminate all sources of ignition. Use special care to avoid static electric charges. Avoid all contact with skin, eyes, or clothing.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Evacuate unnecessary personnel. Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing vapors. Do not touch or walk on the spilled product. No action shall be taken without appropriate training or involving any personal risk.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

Emergency procedures : Evacuate unnecessary personnel. Use non-sparking tools. Ventilate area.

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6.2. Environmental precautions

Avoid release to the environment. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Stop leak, if possible without risk. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Remove ignition sources. Caution : this product can cause the floor to be slippery.
- Methods for cleaning up : Move containers from spill area. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. After approx. one hour transfer to waste container and do not seal (evolution of CO₂). Keep damp in a safe ventilated area for several days. Decontaminate and wash the floor with: Decontamination solution 1: 8-10% sodium carbonate and 2% of liquid soap in water
Decontamination solution 2: Liquid/yellow soap (potassium soap with ~15% anionic tenside): 20ml; Water:700ml; Polyethylenglycol (PEG 400): 350ml
Decontamination solution 3: 30 % commercial laundry detergent containing monoethanolamine, 70 % water. Prevent entry to sewers and public waters. Use non-sparking tools.
- Other information : Dispose of via an authorised person/ licensed waste disposal contractor or by other suitable waste treatment techniques. Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Ensure good ventilation of the work station. Provide local exhaust or general room ventilation. Do not breathe vapors. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Eliminate all ignition sources if safe to do so. Take precautionary measures against static discharge. Use explosion-proof equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not re-use container for any purpose. Persons suffering from asthma or eczema and persons who have chronic lung diseases, skin or respiratory allergies to isocyanates should not work with the material.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Strong oxidizers. Store in a dry place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from food, drink and animal feedingstuffs. Keep container tightly closed. Containers which are opened should be properly resealed and kept upright to prevent leakage. Store in accordance with local, regional, national or international regulation. Do not store in unlabelled containers.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chlorobenzene (108-90-7)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Chlorobenzene
ACGIH OEL TWA	10 ppm
Remark (ACGIH)	TLV® Basis: Liver dam. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2024
USA - OSHA - Occupational Exposure Limits	
Local name	Chlorobenzene
OSHA PEL TWA	350 mg/m ³ 75 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Ethyl acetate (141-78-6)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Ethyl acetate
ACGIH OEL TWA	400 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr
Regulatory reference	ACGIH 2024
USA - OSHA - Occupational Exposure Limits	
Local name	Ethyl acetate
OSHA PEL TWA	1400 mg/m ³ 400 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Monitoring methods	
Monitoring methods	Refer to all applicable national, international and local regulations or provisions.

8.2. Appropriate engineering controls

Appropriate engineering controls	: Provide local exhaust or general room ventilation. Ensure exposure is below occupational exposure limits (where available). Handle in accordance with good industrial hygiene and safety procedures. Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Environmental exposure controls	: Avoid release to the environment. Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment. Personal protective equipment should be chosen according to the NIOSH standards and in discussion with the supplier of the protective equipment.

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Hand protection:

Chemical resistant gloves (according to NIOSH standard). Recommended materials. butyl rubber. Breakthrough time : 3 (> 60 minutes). Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing. Skin protection appropriate to the conditions of use should be provided

Respiratory protection:

An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits. All respirators must conform to specifications for efficiency and performance indicated by OSHA Standard 29 CFR 1910.134 and NIOSH Standards

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: brownish yellow to brownish
Odor	: solvent-like
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 77 °C (171 °F, 1.013 hPa)
Flash point	: -4 °C (25 °F, DIN 51755)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 97 hPa (20 °C, 68 °F)
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: ≈ 1 g/cm ³ (20 °C, 68 °F, DIN 53217)
Solubility	: Not miscible. Reacts with water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: ≈ 3 mm ² /s
Viscosity, dynamic	: 3 mPa·s (20 °C, 68 °F, DIN 53019)
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

Additional information	: Ignition temperature: ≈ 460 °C (860 °F) Flow time: ≈ 10 s (DIN 53211)
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SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapor. Can form explosive mixtures with air. Heating may cause a fire or explosion.

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10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Exothermic reaction on contact with : Alcohols. Amines. Reacts violently with water. pressure rise and possible bursting of container.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Protect from sunlight. Overheating. Extremely high or low temperatures. No flames, no sparks. Eliminate all sources of ignition. Protect from moisture.

10.5. Incompatible materials

Alcohols. Amines.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

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LD50 oral rat	> 2000 mg/kg (OECD 423 method)
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Tris(p-isocyanatophenyl) thiophosphate (4151-51-3)

LC50 Inhalation - Rat (Dust/Mist)	5.721 mg/l/4h (OECD 403 method)
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ATE US (oral)	500 mg/kg body weight
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Chlorobenzene (108-90-7)

LC50 Inhalation - Rat (Vapours)	29.7 mg/l/4h (OECD 403 method)
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ATE US (gases)	4500 ppmV/4h
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ATE US (vapors)	11 mg/l/4h
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ATE US (dust, mist)	1.5 mg/l/4h
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Ethyl acetate (141-78-6)

LD50 oral	5600 mg/kg
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LD50 dermal rabbit	> 18000 mg/kg
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LD50 dermal	18000 mg/kg
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LC50 Inhalation - Rat	> 22.5 mg/l (6h)
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LC50 Inhalation - Rat (Vapours)	52.75 mg/l/4h
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Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

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Additional information	No eye irritation. rabbit. (OECD 405 method)
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Respiratory or skin sensitization : Not classified

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Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause drowsiness or dizziness.

Ethyl acetate (141-78-6)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: $\approx 3 \text{ mm}^2/\text{s}$
Symptoms/effects after inhalation	: May cause drowsiness or dizziness. In high concentrations vapors cause anesthetic and narcotic effect. Asthmatic complaints. May cause shortness of breath, tightness of the chest, a sore throat and cough.
Symptoms/effects after skin contact	: Repeated exposure may cause skin dryness or cracking. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. Skin rash/inflammation.
Symptoms/effects after eye contact	: Redness, itching, tears.
Symptoms/effects after ingestion	: May be harmful if swallowed. Ingestion may cause nausea, vomiting and diarrhea.
Other information	: No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation.

SECTION 12: Ecological information

12.1. Toxicity

Chlorobenzene (108-90-7)	
NOEC chronic crustacea	4.8 mg/l (28 d, Danio rerio, OECD 210)
Ethyl acetate (141-78-6)	
LC50 - Fish [1]	230 mg/l
EC50 - Crustacea [1]	262 mg/l
NOEC chronic fish	< 9.65 mg/l (32 d, Pimephales promelas)
NOEC chronic crustacea	2.4 mg/l

12.2. Persistence and degradability

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Persistence and degradability	Biodegradability in water: no data available.
Tris(p-isocyanatophenyl) thiophosphate (4151-51-3)	
Persistence and degradability	Not rapidly degradable
Biodegradation	58.2 % (28 d, OECD 301F)
Chlorobenzene (108-90-7)	
Persistence and degradability	Not rapidly degradable
Biodegradation	15 % (28 d, OECD 301F)
Ethyl acetate (141-78-6)	
Persistence and degradability	Rapidly degradable
Biodegradation	69 % (20 d); 93 % (6 d)

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12.3. Bioaccumulative potential

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Bioaccumulative potential	No data available concerning bioaccumulation.
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Chlorobenzene (108-90-7)

BCF - Fish [1]	3.9 – 40
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Partition coefficient n-octanol/water (Log Pow)	3
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Ethyl acetate (141-78-6)

BCF - Fish [1]	30 (3 d, Leuciscus idus)
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12.4. Mobility in soil

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Ecology - soil	No additional information available.
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12.5. Other adverse effects

Other adverse effects : No other effects known.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Do not dispose of the packaging without first carrying out the necessary cleaning. Do not pierce or burn, even after use.
Additional information	: Flammable vapors may accumulate in the container.
Ecological information	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

DOT NA No	: UN1173
UN-No. (TDG)	: UN1173
UN-No. (IMDG)	: 1173
UN-No. (IATA)	: 1173

14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Ethyl acetate
Proper Shipping Name (TDG)	: ETHYL ACETATE
Proper Shipping Name (IMDG)	: ETHYL ACETATE
Proper Shipping Name (IATA)	: Ethyl acetate

14.3. Transport hazard class(es)

DOT	
Transport hazard class(es) (DOT)	: 3
Hazard labels (DOT)	: 3

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TDG

Transport hazard class(es) (TDG) : 3
Hazard labels (TDG) : 3



IMDG

Transport hazard class(es) (IMDG) : 3
Hazard labels (IMDG) : 3



IATA

Transport hazard class(es) (IATA) : 3
Hazard labels (IATA) : 3



14.4. Packing group

Packing group (DOT) : II
Packing group (TDG) : II
Packing group (IMDG) : II
Packing group (IATA) : II

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

UN-No.(DOT) : UN1173
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.
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L

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DOT Vessel Stowage Location : 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.

TDG

UN-No. (TDG) : UN1173
Explosive Limit and Limited Quantity Index : 1 L
Excepted quantities (TDG) : E2
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 5 L
Emergency Response Guide (ERG) Number : 129

IMDG

Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1
EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage) : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS
Stowage category (IMDG) : B
Flash point (IMDG) : -4°C c.c.
Properties and observations (IMDG) : Colourless liquid with a fragrant odour. Flashpoint: -4°C c.c. Explosive limits: 2.18% to 11.5%. Immiscible with water.

IATA

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y341
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 353
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 364
CAO max net quantity (IATA) : 60L
ERG code (IATA) : 3L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US 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.

Chlorobenzene	CAS-No. 108-90-7	< 1%
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Chlorobenzene (108-90-7)

Listed on EPA Hazardous Air Pollutant (HAPS)

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Chlorobenzene (108-90-7)	
CERCLA RQ	100 lb

Ethyl acetate (141-78-6)	
CERCLA RQ	5000 lb

15.2. International regulations

CANADA

Tris(p-isocyanatophenyl) thiophosphate (4151-51-3)	
Listed on the Canadian DSL (Domestic Substances List)	

Chlorobenzene (108-90-7)	
Listed on the Canadian DSL (Domestic Substances List)	

Ethyl acetate (141-78-6)	
Listed on the Canadian DSL (Domestic Substances List)	

EU-Regulations

No additional information available

National regulations

Chlorobenzene (108-90-7)	
Listed on INSQ (Mexican National Inventory of Chemical Substances)	

Ethyl acetate (141-78-6)	
Listed on INSQ (Mexican National Inventory of Chemical Substances)	

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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Data sources : ECHA (European Chemicals Agency). Supplier's safety documents.
Training advice : Training staff on good practice.

Full text of H-phrases	
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled

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Full text of H-phrases	
H336	May cause drowsiness or dizziness
H411	Toxic to aquatic life with long lasting effects

Abbreviations and acronyms	
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

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.