

# SAFETY DATA SHEET



Jotun Protects Property

## Hardtop Design Metallics Comp A

### Section 1. Identification

**Product identifier** : Hardtop Design Metallics Comp A  
**Product code** : 43962  
**Other means of identification** : Not available.  
**Product type** : Liquid.  
**Product description** : Paint.

#### Recommended use of the chemical and restrictions on use

##### Identified uses

Use in coatings - Industrial use

Use in coatings - Professional use

##### Restrictions on use

Not applicable.

**Supplier's details** : Jotun (Philippines) Inc.  
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### Section 2. Hazard identification

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 3  
SKIN SENSITISATION - Category 1  
REPRODUCTIVE TOXICITY - Category 2  
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3  
SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3  
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

#### GHS label elements

##### Hazard pictograms



**Signal word** : Warning.

## Section 2. Hazard identification

- Hazard statements** : H226 - Flammable liquid and vapour.  
H317 - May cause an allergic skin reaction.  
H336 - May cause drowsiness or dizziness.  
H361 - Suspected of damaging fertility or the unborn child.  
H412 - Harmful to aquatic life with long lasting effects.
- Precautionary statements**
- General** : Not applicable.
- Prevention** : P203 - Obtain, read and follow all safety instructions before use.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P261 - Avoid breathing vapour.  
P272 - Contaminated work clothing should not be allowed out of the workplace.
- Response** : P318 - IF exposed or concerned, get medical advice.  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water.  
P302 + P352 - IF ON SKIN: Wash with plenty of water.  
P333 + P317 - If skin irritation or rash occurs: Get medical help.  
P362 + P364 - Take off contaminated clothing and wash it before reuse.  
P319 - Get medical help if you feel unwell.
- Storage** : P405 - Store locked up.  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 - Keep cool.
- Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Other hazards which do not result in classification** : None known.

## Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Other means of identification** : Not available.

Ingredient name	%	Identifiers
n-butyl acetate	≥25 - ≤50	CAS: 123-86-4
2-butoxyethyl acetate	≤3	CAS: 112-07-2
pentane-2,4-dione	≤3	CAS: 123-54-6
benzotriazol derivate	≤2.6	CAS: 104810-48-2
reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	≤1	CAS: 1065336-91-5
2-Hydroxyethyl methacrylate	≤0.3	CAS: 868-77-9
Neodecanoic acid, zinc salt, basic	≤0.3	CAS: 84418-68-8
methyl methacrylate	≤0.3	CAS: 80-62-6
isobutyl methacrylate	≤0.3	CAS: 97-86-9

## Section 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : May cause drowsiness or dizziness.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : Adverse symptoms may include the following:  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations

## Section 4. First aid measures

- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

- Suitable extinguishing media** : Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.
- Unsuitable extinguishing media** : Do not use water jet.

- Specific hazards arising from the chemical** : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
halogenated compounds  
carbonyl halides  
metal oxide/oxides

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flames, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods and material for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## Section 7. Handling and storage

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
n-butyl acetate	<b>TLV (Philippines, 4/2016)</b> TLV 8 hours: 710 mg/m <sup>3</sup> . TLV 8 hours: 150 ppm.
methyl methacrylate	<b>TLV (Philippines, 4/2016)</b> TLV 8 hours: 410 mg/m <sup>3</sup> . TLV 8 hours: 100 ppm.

#### Biological exposure indices

No exposure indices known.

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying to EN 166 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

## Section 8. Exposure controls/personal protection

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

- Physical state** : Liquid.
- Colour** : Metallic
- Odour** : Characteristic.
- Odour threshold** : Not available.
- pH** : Not applicable.
- Melting point/freezing point** : Not available.
- Boiling point or initial boiling point and boiling range** : Not available.
- Flash point** : Closed cup: 27°C (80.6°F)
- Evaporation rate** : Not available.
- Flammability** : Not available.
- Lower and upper explosion limit/flammability limit** : Not available.
- Vapour pressure** :

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
n-butyl acetate	11.25096	1.5	DIN EN 13016-2			

- Relative vapour density** : Not available.
- Relative density** : Not available.
- Density** : 1.06 to 1.081 g/cm<sup>3</sup>
- Solubility(ies)** :

Media	Result
cold water	Not soluble
hot water	Not soluble

- Solubility in water** : Not available.
- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** :

Ingredient name	°C	°F	Method
n-butyl acetate	415	779	EU A.15

- Decomposition temperature** : Not available.

## Section 9. Physical and chemical properties and safety characteristics

**Viscosity** : Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C (104°F)): >20.5 mm<sup>2</sup>/s (>20.5 cSt)

### Particle characteristics

**Median particle size** : Not applicable.

## Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

**Incompatible materials** : Reactive or incompatible with the following materials:  
oxidising materials

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

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

##### **Product/ingredient name**

n-butyl acetate

##### **Result**

**Rat - Male, Female - Oral - LD50**

10760 mg/kg

OECD 423 [Acute Oral toxicity - Acute Toxic Class Method]

**Rabbit - Dermal - LD50**

>14112 mg/kg

OECD 402 [Acute Dermal Toxicity]

**Rat - Male, Female - Inhalation - LC50 Dusts and mists**

23.4 mg/l [4 hours]

OECD 403 [Acute Inhalation Toxicity]

**Rabbit - Dermal - LD50**

1500 mg/kg

Toxic effects: Kidney, Ureter, and Bladder - Hematuria Kidney,

Ureter, and Bladder - Other changes in urine composition

Blood - Normocytic anemia

**Mouse - Oral - LD50**

951 mg/kg

**Rat - Oral - LD50**

5050 mg/kg

Toxic effects: Behavioral - Coma

**Rat - Oral - LD50**

7872 mg/kg

Toxic effects: Behavioral - Muscle weakness Behavioral -

Coma Lung, Thorax, or Respiration - Respiratory depression

**Rabbit - Dermal - LD50**

>5 g/kg

Toxic effects: Skin After systemic exposure - Dermatitis, other

**Rat - Inhalation - LC50 Vapour**

78000 mg/m<sup>3</sup> [4 hours]

2-butoxyethyl acetate

pentane-2,4-dione

2-Hydroxyethyl methacrylate

methyl methacrylate

## Section 11. Toxicological information

**Conclusion/Summary[Product]** : Not available.

### Skin corrosion/irritation

**Product/ingredient name**

2-butoxyethyl acetate

pentane-2,4-dione

2-Hydroxyethyl methacrylate

methyl methacrylate

isobutyl methacrylate

**Result**

**Rabbit - Skin - Mild irritant**

Amount/concentration applied: 500 milligrams

**Rabbit - Skin - Mild irritant**

Amount/concentration applied: 488 milligrams

**Rabbit - Skin - Mild irritant**

Duration of treatment/exposure: 6 hours

Amount/concentration applied: 11.2 Milliliters Intermittent

**Rabbit - Skin - Moderate irritant**

Duration of treatment/exposure: 48 hours

Amount/concentration applied: 11.2 Milliliters Intermittent

**Rabbit - Skin - Moderate irritant**

Duration of treatment/exposure: 6 hours

Amount/concentration applied: 33.6 Milliliters Intermittent

**Mammal - species unspecified - Skin - Mild irritant**

**Mammal - species unspecified - Skin - Mild irritant**

**Mammal - species unspecified - Skin - Mild irritant**

**Conclusion/Summary[Product]** : Not available.

### Serious eye damage/eye irritation

**Product/ingredient name**

2-butoxyethyl acetate

pentane-2,4-dione

2-Hydroxyethyl methacrylate

isobutyl methacrylate

**Result**

**Rabbit - Eyes - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 milligrams

**Rabbit - Eyes - Severe irritant**

Amount/concentration applied: 20 milligrams

**Mammal - species unspecified - Eyes - Mild irritant**

**Mammal - species unspecified - Eyes - Mild irritant**

**Conclusion/Summary[Product]** : Not available.

### Respiratory corrosion/irritation

Not available.

**Conclusion/Summary[Product]** : Not available.

### Respiratory or skin sensitization

**Product/ingredient name**

benzotriazol derivate

2-Hydroxyethyl methacrylate

methyl methacrylate

isobutyl methacrylate

**Result**

**Mammal - species unspecified - skin**

Result: Sensitising

**Mammal - species unspecified - skin**

Result: Sensitising

**Mammal - species unspecified - skin**

Result: Sensitising

**Mammal - species unspecified - skin**

Result: Sensitising

### **Skin**

**Conclusion/Summary[Product]** : Not available.

**Ingredient name**

**Conclusion/Summary**

## Section 11. Toxicological information

benzotriazol derivate	May cause an allergic skin reaction.
2-Hydroxyethyl methacrylate	May cause an allergic skin reaction.
methyl methacrylate	May cause an allergic skin reaction.
isobutyl methacrylate	May cause an allergic skin reaction.

### Respiratory

**Conclusion/Summary[Product]** : Not available.

### Germ cell mutagenicity

Not available.

**Conclusion/Summary[Product]** : Not available.

### Carcinogenicity

Not available.

**Conclusion/Summary[Product]** : Not available.

### Reproductive toxicity

Not available.

**Conclusion/Summary[Product]** : Not available.

### Specific target organ toxicity (single exposure)

#### Product/ingredient name

n-butyl acetate

methyl methacrylate

isobutyl methacrylate

#### Result

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on likely routes of exposure

Not available.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : May cause drowsiness or dizziness.

**Skin contact** : May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.

## Section 11. Toxicological information

- Inhalation** : Adverse symptoms may include the following:  
 nausea or vomiting  
 headache  
 drowsiness/fatigue  
 dizziness/vertigo  
 unconsciousness  
 reduced foetal weight  
 increase in foetal deaths  
 skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
 irritation  
 redness  
 reduced foetal weight  
 increase in foetal deaths  
 skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
 reduced foetal weight  
 increase in foetal deaths  
 skeletal malformations

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary[Product]** : Not available.

- General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : Suspected of damaging fertility or the unborn child.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Hardtop Design Metallics Comp A	41459.4	17158.5	N/A	154.2	N/A
n-butyl acetate	10760	N/A	N/A	N/A	23.4
2-butoxyethyl acetate	N/A	1500	N/A	11	N/A
pentane-2,4-dione	500	300	N/A	3	N/A
2-Hydroxyethyl methacrylate	5050	N/A	N/A	N/A	N/A
methyl methacrylate	7872	N/A	N/A	78	N/A

## Section 12. Ecological information

### Toxicity

#### Product/ingredient name

pentane-2,4-dione

#### Result

##### Acute - LC50 - Fresh water

Daphnia - Water flea - *Daphnia magna* - Neonate

Age: 0 to 24 hours

47600 µg/l [48 hours]

Effect: Mortality

##### Acute - LC50 - Fresh water

Fish - Bluegill - *Lepomis macrochirus*

Weight: 0.47 g

60100 µg/l [96 hours]

Effect: Mortality

reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

##### Acute - LC50

Fish

0.9 mg/l [96 hours]

##### Acute - EC50

Algae

1.68 mg/l [96 hours]

##### Chronic - NOEC

Daphnia

1 mg/l [21 days]

isobutyl methacrylate

##### Acute - EC50

OECD 201 [Alga, Growth Inhibition Test]

Aquatic plants - Algae - *Selenastrum capricornutum*

0.74 mg/l [96 hours]

**Conclusion/Summary[Product]** : Not available.

### Persistence and degradability

Not available.

**Conclusion/Summary[Product]** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
benzotriazol derivate	-	-	Not readily
isobutyl methacrylate	-	-	Readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
n-butyl acetate	2.3	-	Low
2-butoxyethyl acetate	1.51	-	Low
pentane-2,4-dione	0.68	-	Low
2-Hydroxyethyl methacrylate	0.42	-	Low
methyl methacrylate	1.38	-	Low
isobutyl methacrylate	2.95	-	Low

### Mobility in soil

**Soil/water partition coefficient** : Not available.





### Other adverse effects

No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	ADR/RID	ADN	IMDG	IATA
<b>UN number</b>	UN1263	UN1263	UN1263	UN1263
<b>UN proper shipping name</b>	Paint	Paint	Paint	Paint
<b>Transport hazard class(es)</b>	3 	3 	3 	3 
<b>Packing group</b>	III	III	III	III
<b>Environmental hazards</b>	No.	Yes.	No.	No.

### Additional information

#### ADR/RID

: **Hazard identification number** 30  
**Viscous liquid exception** This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.  
**Tunnel code** (D/E)  
 ADR/RID: Viscous substance. Not goods of class 3, ref. 2.2.3.1.5 (only applicable to receptacles < 450 litre capacity).

#### ADN

: The product is only regulated as an environmentally hazardous substance when transported in tank vessels.  
**Viscous liquid exception** This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.

#### IMDG

: **Emergency schedules** F-E, S-E  
**Viscous liquid exception** This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.  
 IMDG: Viscous substance. Transport in accordance with 2.3.2.5 of the IMDG Code (only applicable to receptacles < 450 litre capacity).

#### UN

: **Viscous liquid exception** This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.1.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 14. Transport information

**Transport in bulk according to IMO instruments** : Not available.

## Section 15. Regulatory information

### Philippines - Priority Chemical List (PCL)

Not applicable.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

## Section 16. Other information

**SDS based on UN GHS Revision** : 9

### History

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### **Abbreviations and acronyms**

: ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 IMO = International Maritime Organization  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 N/A = Not available  
 SGG = Segregation Group  
 UN = United Nations

### Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 3	On basis of test data
SKIN SENSITISATION - Category 1	Calculation method
REPRODUCTIVE TOXICITY - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3	Calculation method
SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3	Calculation method
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	Calculation method

**Key literature references and sources for data** : Not available.

## Section 16. Other information

✔ Indicates information that has changed from previously issued version.

### Notice to reader

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If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.