

SAFETY DATA SHEET

MASTERET™ 70450

Section 1. Identification

Product identifier : MASTERET™ 70450
Chemical name : MASTERET™ 70450
Other means of identification : MASTERET™ 70450
Product type : liquid

Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Manufacture of substances
 Formulation
 Polymer processing
 Rubber production and processing
 Adhesives
 Formulation and (re)packing of substances and mixtures
 Industrial use resulting in manufacture of another substance (use of intermediates)

Uses advised against

Reason : None identified.

Supplier's details : Italmatch Chemicals Spa

via S. Tommaso 13
 Spoleto (PG)
 Italy
 06049
 +39 0743 20191

Emergency telephone number (with hours of operation) : Monday - Friday (9.00 - 17.00)
 For Chemical Emergency Spill, Leak, Fire, Exposure or Accident Call
 CHEMTREC Day or Night:
 National contact
 +1-800-424-9300
 International Emergency Telephone number: +1-703-527-3887 (call collect)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : SKIN CORROSION/IRRITATION - Category 2
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
 SKIN SENSITIZATION - Category 1

AQUATIC TOXICITY (CHRONIC) - Category 2

GHS label elements**Hazard pictograms****Signal word****Hazard statements**

- : Warning
- : Causes serious eye irritation.
- : Causes skin irritation.
- : May cause an allergic skin reaction.
- : Toxic to aquatic life with long lasting effects.

Precautionary statements**General****Prevention****Response****Storage****Disposal****Supplemental label elements****Hazards not otherwise classified**

- : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
- : Wear protective gloves. Wear eye or face protection. Avoid release to the environment.
- : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- : Not applicable.
- : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- : Contains epoxy constituents. May produce an allergic reaction.
- : None known.

Section 3. Composition/information on ingredients**Substance/mixture****Chemical name****Other means of identification**

- : Mixture
- : MASTERET™ 70450
- : MASTERET™ 70450

CAS number/other identifiers**Product code**

- : 1001475, 1001476

Ingredient name	%	CAS number
bisphenol A epoxy resin	>= 45 - <= 55	1675-54-3
Phosphorus	>= 45 - <= 55	7723-14-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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. |
| Inhalation | : | Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of inhalation of combustion or decomposition fumes: bring the exposed person to fresh air and get medical aid immediately. Get medical attention immediately. |
| 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. 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 adverse health effects persist or are severe. Maintain an open airway. |

Most important symptoms/effects, acute and delayed

Potential acute health effects

- | | | |
|---------------------|---|--|
| Eye contact | : | Causes serious eye irritation. |
| Inhalation | : | No known significant effects or critical hazards. |
| Skin contact | : | Causes skin irritation. May cause an allergic skin reaction. |
| Ingestion | : | Irritating to mouth, throat and stomach. |

Over-exposure signs/symptoms

- | | | |
|---------------------|---|--|
| Eye contact | : | Adverse symptoms may include the following:
pain or irritation
watering
redness |
| Inhalation | : | No specific data. |
| Skin contact | : | Adverse symptoms may include the following:
irritation
redness |
| Ingestion | : | No specific data. |

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. 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. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂, water spray (fog) or foam. Dry sand or other suitable absorbent.
- Unsuitable extinguishing media** : Do not use water jet.
- Specific hazards arising from the chemical** : Products of combustion Toxic gas Corrosive gas. In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds
P₂O₅
nitrogen 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. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- 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.
- Remark** : Non-flammable. (On basis of test data)

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

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- spilled material. Avoid breathing vapor 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 materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Eliminate all ignition sources. Absorb with an inert material and place in an appropriate waste disposal container. Use only non-sparking tools. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Eliminate all ignition sources. 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 (see section 13). Use only non-sparking tools. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

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. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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.

- Conditions for safe storage, including any incompatibilities** :
- Store in accordance with local regulations. Store in a cool, well-ventilated area away from incompatible materials and ignition sources. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. Expiry date 5 months

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

- Appropriate engineering controls** :
- Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- 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 with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

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.
- 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.
- 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** :
- Use a properly fitted, air-purifying or air-fed respirator complying

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with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state	: liquid [Viscous liquid.]
Color	: Dark purple-red.
Odor	: Slight
Odor threshold	: Not available.
pH	: Not available.
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Not available.
Fire point	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Non-flammable. (On basis of test data)
Lower and upper explosive (flammable) limits	: Lower: Not available. Upper: Not available.
Vapor pressure	: < 0.01 Pa @ 20 °C (68 °F)
Vapor density	: Not available.
Relative density	: 1.4 - 1.6
Solubility	: insoluble in water. Soluble in the following materials: Acetone
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: > 300 °C (> 572 °F)
Decomposition temperature	: Not available.
Viscosity	: Dynamic: 100,000 mPa.s @ 25 °C (77 °F) Kinematic: Not available.

Section 10. Stability and reactivity

Reactivity	: Keep away from the following materials to prevent strong exothermic reactions: alkalis acids alcohols mercaptan-like
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- Chemical stability** : Stable under recommended storage and handling conditions (see section 7).
- 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).
- Incompatible materials** :
alcohols
amines
oxidizing materials
acids
alkalis
mercaptan-like
- Hazardous decomposition products** : Hazardous combustion products:, Toxic gas, Corrosive gas.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
bisphenol A epoxy resin				
	LD50 Oral	Rat	13,600 mg/kg	-
	LD50 Dermal	Rat	> 1,000 mg/kg	-
Phosphorus				
	LD50 Oral	Rat - Female	> 15,000 mg/kg 401 Acute Oral Toxicity	-

Conclusion/Summary : Conclusive but not sufficient for classification.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Phosphorus	Eyes - Redness of the conjunctivae 405 Acute Eye Irritation/Corrosion	Rabbit	0	24 hrs	72 hrs

Conclusion/Summary

- Skin** : Causes skin irritation.
- Eyes** : Causes serious eye irritation.
- Respiratory** : Conclusive but not sufficient for classification.

Sensitization

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Conclusion/Summary

Skin : May cause an allergic skin reaction.
Respiratory : Conclusive but not sufficient for classification.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Phosphorus	476 In vitro Mammalian Cell Gene Mutation Test	Subject: Mammalian-Animal Experiment: In vitro	Negative
	471 Bacterial Reverse Mutation Test	Subject: Bacteria Experiment: In vitro	Negative
	473 In vitro Mammalian Chromosomal Aberration Test	Subject: Mammalian-Animal Experiment: In vitro	Negative

Conclusion/Summary : Conclusive but not sufficient for classification.

Carcinogenicity

Conclusion/Summary : Conclusive but not sufficient for classification.

Reproductive toxicity

Conclusion/Summary : Conclusive but not sufficient for classification.

Teratogenicity

Conclusion/Summary : Conclusive but not sufficient for classification.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.
Inhalation : No known significant effects or critical hazards.
Skin contact : Causes skin irritation. May cause an allergic skin reaction.
Ingestion : Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure**Short term exposure**

Potential immediate effects	:	No known significant effects or critical hazards.
Potential delayed effects	:	No known significant effects or critical hazards.

Long term exposure

Potential immediate effects	:	No known significant effects or critical hazards.
Potential delayed effects	:	No known significant effects or critical hazards.

Potential chronic health effects

Conclusion/Summary	:	Conclusive but not sufficient for classification.
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.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.

Numerical measures of toxicity**Acute toxicity estimates**

Not available.

Other information	:	Not applicable.
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Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Phosphorus			
	Acute LC50 33.2 mg/l Fresh water	Zebra danio	96 h
	Acute EC50 10.5 mg/l Fresh water 201 Alga, Growth Inhibition Test	Daphnia magna	48 h
	Acute EC50 36.7 mg/l Fresh water 201 Alga, Growth Inhibition Test	Daphnia magna	24 h
	Chronic NOEC 5 mg/l Fresh water	Algae.	72 h
	Acute EC50 18.3 mg/l Fresh water	Algae.	72 h
	Acute EC50 > 1,000 mg/l Fresh water 209 Activated Sludge, Respiration Inhibition Test	Activated sludge	3 h
MASTERET™ 70450			
Remarks - Acute - Aquatic invertebrates.:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		

Conclusion/Summary : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence and degradability

Conclusion/Summary : Not applicable.

Conclusion/Summary : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
bisphenol A epoxy resin	2.8	-	low

Mobility in soil

Soil/water partition coefficient (KOC) : Not available.

Other adverse effects : No known significant effects or critical hazards.

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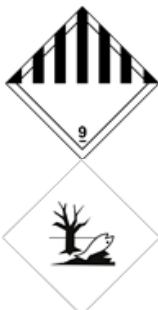
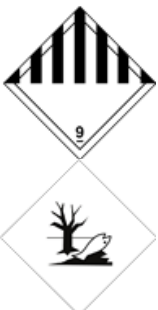
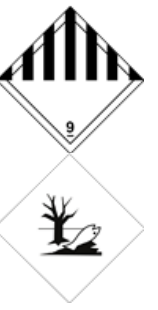
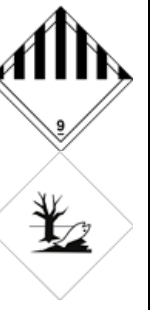
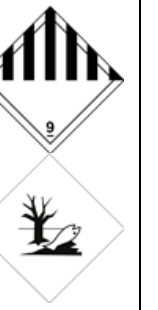
Date of previous issue: 10/19/2018

Section 13. Disposal considerations

Disposal methods

- : The generation of waste should be avoided or minimized 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	3082	3082	3082	3082	3082	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A epoxy resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A epoxy resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A epoxy resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A epoxy resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A epoxy resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A epoxy resin)
Transport hazard class(es)	9 	9 	9 	9 	9 	9 

Packing group	III	III	III	III	III	III
Environmental hazards	Yes.	Yes.	Yes.	Yes.	Yes.	Yes.
Additional information	-	-	-	Hazard identification number: 90 Tunnel code: E	Emergency schedules (EmS): F-A / S-F	-

Special precautions for user : Not applicable.

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

Proper shipping name : Not applicable

Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) IUR: Not determined
United States - EPA Clean water act (CWA) section 311 -
Hazardous substances: Phosphorus;

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Listed
Clean Air Act Section 602 Class I Substances : Not listed
Clean Air Act Section 602 Class II Substances : Not listed
DEA List I Chemicals (Precursor Chemicals) : Exempted
DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Immediate (acute) health hazard

Composition/information on ingredients

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Name	%	Classification
Phosphorus	>= 45 - <= 55	

Form R - Reporting requirements

Product name	CAS number	%
Phosphorus	7723-14-0	>= 45 - <= 55

Supplier notification

Product name	CAS number	%
Phosphorus	7723-14-0	>= 45 - <= 55

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

- Massachusetts** : The following components are listed:
Phosphorus
- New York** : The following components are listed:
Phosphorus
- New Jersey** : The following components are listed:
Phosphorus
- Pennsylvania** : The following components are listed:
Phosphorus

California Prop. 65

Not available.

International regulations**Chemical Weapon Convention List Schedules I, II & III Chemicals****Chemical Weapons Convention List Schedule I Chemicals**

None of the components are listed.

Chemical Weapons Convention List Schedule II Chemicals

None of the components are listed.

Chemical Weapons Convention List Schedule III Chemicals

None of the components are listed.

Montreal Protocol (Annexes A, B, C, E)

None of the components are listed.

Stockholm Convention on Persistent Organic Pollutants**Annex A - Elimination - Production**

None of the components are listed.

Annex A - Elimination - Use

None of the components are listed.

Annex B - Restriction - Production

None of the components are listed.

Annex B - Restriction - Use

None of the components are listed.

Annex C - Unintentional - Production

None of the components are listed.

Rotterdam Convention on Prior Inform Consent (PIC)

None of the components are listed.

UNECE Aarhus Protocol on POPs and Heavy Metals**Heavy metals - Annex 1**

None of the components are listed.

POPs - Annex 1 - Production

None of the components are listed.

POPs - Annex 1 - Use

None of the components are listed.

POPs - Annex 2

None of the components are listed.

POPs - Annex 3

None of the components are listed.

Inventory list

Australia	:	All components are listed or exempted.
Canada	:	All components are listed or exempted.
China	:	All components are listed or exempted.
Europe	:	All components are listed or exempted.
Japan	:	Japan inventory (ENCS): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted.
Malaysia	:	Not determined.
New Zealand	:	All components are listed or exempted.
Philippines	:	All components are listed or exempted.
Republic of Korea	:	All components are listed or exempted.
Taiwan	:	Not determined.

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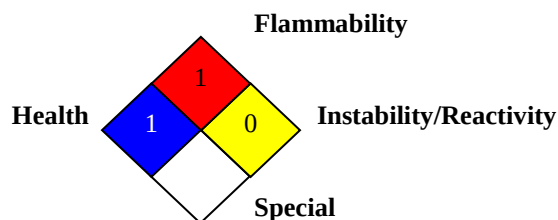
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Turkey	:	Not determined.
United States	:	All components are listed or exempted.

Section 16. Other information

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification
SKIN CORROSION/IRRITATION - Category 2	Expert judgment
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Expert judgment
SKIN SENSITIZATION - Category 1	Expert judgment
AQUATIC TOXICITY (CHRONIC) - Category 2	Expert judgment

History

Date of printing	:	10/22/2014
Date of issue/Date of revision	:	02/12/2019
Date of previous issue	:	10/19/2018
Version	:	2.1
Prepared by	:	MALATESTAR
Key to abbreviations	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association

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IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution
From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine
pollution)
UN = United Nations
: Not available.

References

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.