SAFETY DATA SHEET

MASTERET® 80550

Section 1. Identification

GHS product identifier	:	MASTERET® 80550
Product code	:	1001809, 1002097, 1001808
Chemical name	:	Liquid dispersion of Red Phosphorous
Other means of identification	:	Not applicable.
Product type	:	liquid

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

Identified uses
Manufacture of substance
Formulation
Use in polymer processing
Use in rubber production and processing
Adhesives
Formulation and (re)packing of substances and mixtures
Use of intermediate

Uses advised against
Not applicable.

Supplier's details :

Italmatch Chemicals Spa

via S. Tommaso 13
Spoleto (PG)
Italy
06049
+39 0743 20191 /
Monday - Friday (9.00 - 17.00) /
ITALMATCH USA CORPORATION
5544 Oakdale Road SE
Smyrna
USA
GA 30082
404-696-6711
Monday - Friday (9.00 - 17.00)

Emergency telephone number (with hours of operation) :

CHEMTREC (for chemical emergency or accident, 24/7):
Emergency telephone number
National contact
+1-800-424-9300
International Emergency Telephone number: +1-703-527-3887
(collect call)

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 SENSITIZATION - Category 1

GHS label elements

Hazard pictograms :

Signal word : Warning

Hazard statements : May cause an allergic skin reaction.
Harmful to aquatic life with long lasting effects.

Precautionary statements

General : Read carefully and follow all instructions. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention : Wear protective gloves. Avoid release to the environment. Avoid breathing vapor.

Response : Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified : Products of combustion, Hazardous combustion products Toxic gases Corrosive gas.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Chemical name : Liquid dispersion of Red Phosphorous

Other means of identification : Not applicable.

Ingredient name	%	CAS number
Phosphorus	>= 45 - <= 50	7723-14-0
1,2-Benzisothiazol-3(2H)-one	> 0 - < 0.1	2634-33-5
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]	> 0 - < 0.1	55965-84-9

(3:1)		

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 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 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 adverse health effects persist or are severe. 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.

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 adverse health effects persist or are severe. 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 : No known significant effects or critical hazards.

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	:	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, CO_2, 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 Corrosive gas. Toxic gas In a fire or if heated, a pressure increase will occur and the container may burst. 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 oxides (CO, CO_2), P2O5, nitrogen oxides, Phosphoric acid
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.
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	:	Dry deposits are highly flammable.
Remark	:	Not applicable.

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. 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 specialized 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. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry 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. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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). 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. Avoid release to the environment. 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, : Store in accordance with local regulations. Store in original container

including any incompatibilities	protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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. See Section 10 for incompatible materials before handling or use.

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. 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.
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 : Given suitable ventilation, it can be assumed that the threshold limits will not be reached. In case of insufficient ventilation, wear suitable respiratory equipment. 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 [Viscous liquid.]
Color	:	Dark purple-red.
Odor	:	Slight
Odor threshold	:	Not applicable.
pH	:	6.5 - 8
Melting point/freezing point	:	Not applicable.
Boiling point, initial boiling point, and boiling range	:	Not available.
Flash point	:	Not applicable.
Burning time	:	Not applicable.
Flammability	:	Dry deposits are highly flammable.
Lower and upper explosion limit/flammability limit	:	**Lower:** Not available. **Upper:** Not applicable.
Vapor pressure	:	< 0.01 Pa @ 20 °C (68 °F)
Relative vapor density	:	Not available.
Relative density	:	1.4 - 1.6
Solubility(ies)	:	Not applicable.
Solubility in water	:	Not available.
Partition coefficient: n-	:	Not applicable.

octanol/water

Auto-ignition temperature :

Ingredient name	Auto-ignition temperature
phosphorus	215 °C (419 °F)

Decomposition temperature : Not available.

Viscosity : **Dynamic :** 2,000 - 10,000 mPa.s

Kinematic : Not applicable.

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 : Stable under recommended storage and handling conditions (see Section 7).

Possibility of hazardous reactions : Hazardous reactions or instability may occur under certain conditions of storage or use.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame).

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials, strong acids, alkalis, These could cause the product to polymerize exothermically. Unintentional contact with them should be avoided.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.Hazardous decomposition products, Hazardous combustion products, Toxic gas, Corrosive gas.May release dangerous gases (PHOSPHINE) under certain conditions:low oxygen, contact with water, high temperature

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Phosphorus				
	LD50 Oral	Rat - Female	> 15,000 mg/kg 401 Acute Oral Toxicity	-
	LD50 Oral	Rat - Male/Female	> 10,000 mg/kg	-

			401 Acute Oral Toxicity	
1,2-Benzisothiazol-3(2H)-one				
	LD50 Oral	Rat	1,020 mg/kg	-
	LD50 Dermal	Rat	> 2,000 mg/kg	-
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)				
	LD50 Oral	Rat	53 mg/kg	-

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
	Skin - Primary dermal irritation index (PDII)	Rabbit	0	24 hrs	72 hrs
1,2-Benzisothiazol-3(2H)-one	Skin - Mild irritant	Human	-	48 hrs	-
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Skin - Severe irritant	Human	-		-

Conclusion/Summary
Skin : Conclusive but not sufficient for classification.
Eyes : Conclusive but not sufficient for classification.
Respiratory : Conclusive but not sufficient for classification.

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Phosphorus	Skin	Guinea pig	Not sensitizing 406 Skin Sensitization

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-Human Metabolic activation: with and without Experiment: In vitro	Negative

	473 In vitro Mammalian Chromosomal Aberration Test	Subject: Mammalian-Human Metabolic activation: with and without Experiment: In vitro	Negative
	471 Bacterial Reverse Mutation Test	Subject: Bacteria Metabolic activation: with and without 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 : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
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.
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.

Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

N/A

Interactive effects : Not applicable.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Phosphorus			
	Acute LC50 33.2 mg/l Fresh water 203 Fish, Acute Toxicity Test	Zebra danio	96 h
	Acute EC50 10.5 mg/l Fresh water 201 Alga, Growth Inhibition Test	Water flea	48 h
	Chronic NOEC 5 mg/l Fresh water 201 Alga, Growth Inhibition Test	Scenedesmus subspicatus	72 h
	Acute EC50 18.3 mg/l Fresh water 201 Alga, Growth Inhibition Test	Scenedesmus subspicatus	72 h
	Acute EC50 > 1,000 mg/l Fresh water 209 Activated Sludge,	Activated sludge	3 h

	Respiration Inhibition Test		
1,2-Benzisothiazol-3(2H)-one			
	Acute LC50 0.167 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 h
	Acute EC50 0.097 mg/l Fresh water	Daphnia - Daphnia magna	48 h
	Acute LC50 10 - 20 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 h

Conclusion/Summary : Harmful to aquatic life with long lasting effects.

Persistence and degradability

Conclusion/Summary : Not readily biodegradable.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (KOC) : 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 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	IMDG	IATA
UN number					
UN proper shipping name	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
Transport hazard class(es)	-	-	-		
Packing group					
Environmental hazards	No.	No.	No.	No.	No.

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.

Transport in bulk according to IMO instruments **Proper shipping name** : Not applicableNot applicable

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption:** 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) : Listed
DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302/304
Phosphorus	>= 45 - <= 50	Yes.	**SARA 304 RQ:** 1 lb(s) **SARA 302 TPQ:** 100 lb(s)

SARA 304 RQ : 2 lbs

SARA 311/312

Classification : SKIN SENSITIZATION - Category 1

Composition/information on ingredients

Name	%	Classification
Phosphorus	>= 45 - <= 50	FLAMMABLE SOLIDS - Category 1
1,2-Benzisothiazol-3(2H)-one	> 0 - < 0.1	ACUTE TOXICITY - oral - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	> 0 - < 0.1	ACUTE TOXICITY - oral - Category 3 ACUTE TOXICITY - dermal - Category 2 ACUTE TOXICITY - inhalation - Category 2 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A

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

This product does not require a Safe Harbor warning under California Prop. 65.

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
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 Informed Consent (PIC)

Rotterdam Convention on Prior Informed Consent (PIC) - Industrial
None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) - Pesticide
None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) -Severely hazardous pesticide
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.
Eurasian Economic Union	:	**Russian Federation inventory:** Please contact your supplier for information on the inventory status of this material.
Japan	:	**Japan inventory (CSCL)**: All components are listed or exempted. **Japan inventory (ISHL)**: All components are listed or exempted.
New Zealand	:	All components are listed or exempted.
Philippines	:	All components are listed or exempted.
Republic of Korea	:	Please contact your supplier for information on the inventory status of this material.
Taiwan	:	Please contact your supplier for information on the inventory status of this material.
Thailand	:	All components are listed or exempted.
Turkey	:	Please contact your supplier for information on the inventory status of this material.
United States	:	All components are active or exempted.
Viet Nam	:	All components are active or exempted.

Section 16. Other information

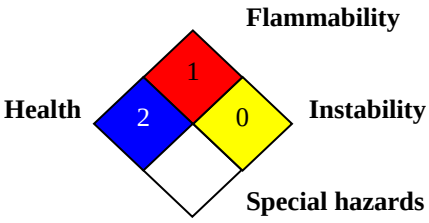
Hazardous Material Information System (U.S.A.)

Health	/	2
Flammability		1
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

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



Procedure used to derive the classification

Classification	Justification
SKIN SENSITIZATION - Category 1	Expert judgment

History

Date of printing : 02/01/2024
Date of issue/Date of revision : 10/10/2023
Date of previous issue : 02/02/2023
Version : 2.1
Prepared by : INDUNIG
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
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
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
References : Not available.

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.