

## Safety Data Sheet (SDS)

Preparation Date 2017/03/28

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	DENATRON PT-448-B
Product Code	P11210-AA9842
Reference Number	P112109418-1
Company Name	Nagase ChemteX Corporation
Address	236, Tatsunocho-nakai, Tatsuno, Hyogo, Japan
Company Contact	Nagase ChemteX Corporation
Phone Number	+81-791-63-9087
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Emergency Phone Number	+81-791-62-0862

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification

Physicochemical Hazards	Flammable liquids Not classified
Health Hazards	Serious eye damage/eye irritation Category 2B Reproductive toxicity Category 1B Specific target organ toxicity (single exposure) Category 1(liver,systemic symptom) Specific target organ toxicity (repeated exposure) Category 1(liver,respiratory system,systemic symptom) Other hazards than mentioned above are Not applicable or No data available.

## GHS Label Elements

## Symbols



Signal Word	Danger
Hazard Statements	H320 Causes eye irritation H360 May damage fertility or the unborn child H370 Causes damage to liver,systemic symptom H372 Causes damage to liver,respiratory system,systemic symptom through prolonged or repeated exposure
Precautionary Statements	
Prevention	Do not handle until all safety precautions have been read and understood.(P202)
Precautionary Statements	Avoid breathing mist, vapours, spray, dust and fume.(P261) Wash hand thoroughly after handling.(P264) Do not eat, drink or smoke when using this product.(P270) Wear protective gloves, protective clothing and eye protection.(P280)

Response Precautionary Statements	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338) IF exposed or if you feel unwell: Call a doctor.(P309+P311) Get medical advice and attention if you feel unwell.(P314) If eye irritation persists: Get medical advice and attention.(P337+P313) Store locked up.(P405)
Storage Precautionary Statements	
Disposal Precautionary Statements	Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

## Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance  
or Mixture

Mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No.	ISHL No.	
Organic solvent(Water-soluble)	Trade secret	—	Registered	Registered	Registered
Water	> 50%	—	—	—	7732-18-5

Impurities and/or  
Stabilizing Additives which  
Contribute to the  
Classification

No information available

## Section 4 – FIRST AID MEASURES

Inhalation

If breathing is difficult, move affected person to the open air. Keep him or her at rest to allow easier breathing.

If experiencing respiratory symptoms: Call a doctor.

Skin Contact

Take off or dispose of all polluted clothes.

Call a doctor if you feel unwell.

Wash the skin with flowing water or shower.

If skin irritation or rash occurs, get medical advice and attention.

Eye Contact

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion

Rinse a mouth. Don't make vomit by force.

Get medical treatment and advice.

## Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Foam. Carbon dioxide. BCF (where regulations permit). Dry chemical powder. Dry sand.

Specific Fire Fighting

Move containers from fire area if you can do it without risk.

Cool containers with flooding quantities of water until well after fire is out.

Use extinguishing agent suitable for type of surrounding fire.

Protection of Fire Fighter

In fire fighting, wear respiratory protection and chemical protective clothing.

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
Protective Equipment and  
Emergency Procedures

Do not touch or walk through spilled material.

Isolate the site as a leak area by providing a zone that has an appropriate width to all directions.  
Keep unauthorized personnel away.  
Stay upwind.  
Ventilate closed spaces before entering.  
Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.  
Keep out of low areas.  
Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.  
Do not release into the environment.

Environmental  
Precautions

Pay attention not to cause the influence on the environment by discharging into rivers.  
All equipment used when handling the product must be grounded.

Methods and Equipment  
for Containment and  
Cleaning up

After removal, flush contaminated area thoroughly with water.  
Large spills; prevent flowing out with a dike and collect it at a safe place.  
For small amount of spills, collect spillages into empty container which can be sealed after absorbing with waste cloth, dry sand, absorbent etc.  
Flush a floor fully. Neutralize rinsing water after rinsing, if needed.  
Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).  
Prevent flowing into drain, sewage, basement, and closed area.

Prevention Measures for  
Secondary Accidents

Section 7 – HANDLING AND STORAGE

Handling

Technical Measures

Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".

Precautions for Safe  
Handling

Do not handle until all safety precautions have been read and understood.  
Prohibit use of heat, sparks, and fire in the surrounding area.  
Do not handle containers with such manners as tumbling down, falling, exposing to shock, or dragging.  
Do not eat, drink or smoke when using this product.  
Wash hand thoroughly after handling.

Storage Precautionary Statements		Handle at a well-ventilated place. Do not get in eyes, on skin or on clothing. Do not breath mist, vapors, spray, dust or fume. Do not swallow.
	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
	Specific Hygiene Measures	Wash hand thoroughly after handling.
	Conditions for Safe Storage	Storage may be subjected to national, state, or local laws. Refer to "Section 10 – STABILITY AND REACTIVITY". Keep away from direct sunlight, high temperature and high humidity. Keep in a well-ventilated place. Keep container tightly closed. Keep in a cool place or at the designated storage temperature. Keep in a dark place.
	Material Used in Packaging/Container	Follow all regulations in your country. Keep only in the original container.

## Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls		Use explosion-proof electrical, ventilating and lighting equipment. Take precautionary measures against static discharge. Facilities storing or utilizing this product should be equipped with an eyewash facility and safety shower.
		Handle at the workplace in which the suitable ventilator was installed.
	Personal Protective Equipment	Wear an adequate protective apparatus for respiratory organs.
	Hand Protection	Wear protective gloves. Use impervious glove.
	Eye Protection	Wear eye protection. Goggles (ordinary glass type with side shields, and goggle type)
	Skin and Body Protection	Wear a protective equipment for the face.  Use the personal protective clothing whenever necessary. Wear suitable protective clothing. Use impervious protective clothing(e.g. apron, rubber boots etc.) if needed.

## Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form	liquid
	Colour	milky white
Odour		no data available
Odour threshold		no data available
pH		no data available
Melting Point/Freezing Point		no data available
Initial Boiling Point and Boiling Ranges		no data available

Flash Point	Not ignited
Evaporation Rate	no data available
Flammability (solid, gas)	no data available
Flammability or Explosive Limits	no data available
Lower Limit	
Upper Limit	no data available
Vapour Pressure	no data available
Vapour Density	no data available
Specific Gravity (Density)	no data available
Solubility	no data available
Partition Coefficient : n-Octanol/Water	no data available
Auto-Ignition Temperature	no data available
Decomposition Temperature	no data available
Viscosity	no data available

#### Section 10 – STABILITY AND REACTIVITY

Chemical stability and Reactivity	The material is stable under storage and handling conditions comprised with the regulations.
Possibility of Hazardous Reaction	No data available
Conditions to Avoid	High-temperature material. Spark. Naked flame.
Hazardous Decomposition Products	No data available

#### Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	No information available
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#### Section 12 – ECOLOGICAL INFORMATION

Ecotoxicity	No information available
Hazardous to the ozone layer	No information available

#### Section 13 – DISPOSAL CONSIDERATIONS

Residual Waste	Discharge, treatment, or disposal may be subjected to national, state, or local laws. Incinerate in small portions with an incinerator or entrust to an industrial waste disposal company approved by the local authority. When destroying by fire, burn the waste in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated Container and Packaging	If possible, clean up and recycle. Or perform suitable processing in accordance with regulation. Remove residual contents completely before an empty container is discarded.

#### Section 14 – TRANSPORT INFORMATION

International Regulations	Regulatory Information by Sea	Not applicable
	Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code	Not applicable
	Regulatory Information by Air	Not applicable

Specific Safety Measures

Check the container for any leaks and breakages.  
Load up carefully to prevent a fall, a overturning  
and a breakage. Carry out prevention to unpling of  
cargo.  
Do not wet container. Do not handle roughly.

Section 15 – REGULATORY INFORMATION

Follow all regulations in your country.

Section 16 – OTHER INFORMATION

Information Contact

See "Section 1 – CHEMICAL PRODUCT AND  
COMPANY IDENTIFICATION".

Literature References

- GHS LOGIST (MSDS Authoring Systems) /  
Japan Chemical Database Ltd.
- Chemical Risk Information Platform (CHRIP) /  
National Institute of Technology and Evaluation  
(NITE)
- Online MSDS Information / Ministry of Health,  
Labour and Welfare (JAPAN)
- ezADVANCE / Japan Chemical Database Ltd.
- ChemWatch online ChemGold
- MSDS information of raw materials

Other Property

The information provided in this Material Safety  
Data Sheet is correct to the best of our  
knowledge, information and belief at the date of its  
publication.

The information given is designed only as a  
guidance for safe handling, use, processing,  
storage, transportation, disposal and release. And  
is not to be considered a warranty or quality  
specification.