

Safety Data Sheet (SDS)

Preparation Date 2018/08/23

Revision Date 2019/11/19

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	CD-100
Product Code	P11210-AA11159
Reference Number	P1121010780-2
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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Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Physicochemical Hazards	Flammable liquids Category 3
Health Hazards	Serious eye damage/eye irritation Category 2B Germ cell mutagenicity Category 1B Reproductive toxicity Category 1A Specific target organ toxicity (repeated exposure) Category 1(liver) Specific target organ toxicity (repeated exposure) Category 2(central nervous system) Other hazards than mentioned above are Not applicable or No data available.

GHS Label Elements

Symbols



Signal Word	Danger
Hazard Statements	H226 Flammable liquid and vapour H320 Causes eye irritation H340 May cause genetic defects H360 May damage fertility or the unborn child H372 Causes damage to liver through prolonged or repeated exposure H373 May cause damage to central nervous system through prolonged or repeated exposure
Precautionary Statements	
Prevention	
Precautionary Statements	Do not handle until all safety precautions have been read and understood.(P202) Keep away from heat, sparks, open flames and hot surfaces. No smoking.(P210) Keep container tightly closed.(P233) Ground or bond container and receiving equipment.(P240) Use explosion-proof electrical, ventilating and lighting equipment.(P241)

Response Precautionary Statements	Use only non-sparking tools.(P242)
	Take precautionary measures against static discharge.(P243)
	Avoid breathing mist, vapours, spray, dust and fume.(P261)
Storage Precautionary Statements	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)
Disposal Precautionary Statements	IF ON SKIN: Rinse skin with water or shower.(P302+P353)
	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)
Storage Precautionary Statements	Get medical advice and attention if you feel unwell.(P314)
	If eye irritation persists: Get medical advice and attention.(P337+P313)
	In case of fire: Use appropriate media for extinction.(P370+P378)
Disposal Precautionary Statements	Store in a well-ventilated place. Keep container tightly closed.(P403+P233)
	Store locked up.(P405)
	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.	
Conductive filler	0.01~1%	—	Trade secret	Trade secret	Trade secret
Ethanol	10~20%	—	(2)-202	—	64-17-5
Water	>80%	—	—	—	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.

Environmental
Precautions

Do not release into the environment.

Methods and Equipment
for Containment and
Cleaning up

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

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.

Prevention Measures for
Secondary Accidents

Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).

Prevent flowing into drain, sewage, basement, and closed area.

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.
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.

Storage Precautionary Statements

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

Japan Administration Level/Exposure Limits

	Japan Administration Level	Exposure Limits (Japan Society for Occupational Health)	Exposure Limits (ACGIH)
Ethanol	—	—	TWA –, STEL 1000 ppm

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.

Personal Protective Equipment	Respiratory Protection	Handle at the workplace in which the suitable ventilator was installed. 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	black
Odour		no
Odour threshold		no data available
pH		4 ~ 10
Melting Point/Freezing Point		no data available
Initial Boiling Point and Boiling Ranges		no data available
Flash Point		35°C (Tag Closed Cup)
Evaporation Rate		no data available
Flammability (solid, gas)		no data available
Flammability or Explosive Limits	Lower Limit	no data available
	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 Hazardous Decomposition Products	High-temperature material. Spark. Naked flame. No data available

Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	No information available
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Section 12 – ECOLOGICAL INFORMATION

Ecotoxicity	No information available
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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

Conform to the provisions of IMO.

UN No.

1170

Proper Shipping
Name

ETHANOL SOLUTION

Class

3

Packing Group

III

Transport in bulk
according to
MARPOL

Not applicable

73/78,Annex II, and
the IBC code

Regulatory
Information by Air

Conform to the provisions of ICAO/IATA.

UN No.

1170

Proper Shipping
Name

ETHANOL SOLUTION

Class

3

Packing Group

III

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.
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Emergency Response
Guide Number

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 SDS Information / Ministry of Health, Labour and Welfare (JAPAN)
- ezADVANCE / Japan Chemical Database Ltd.

Other Property

- ChemWatch online ChemGold
- SDS information of raw materials

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.