

Safety Data Sheet

SECTION 1 - IDENTIFICATION

SDS REVISION #: 001

PRODUCT IDENTIFIER USED ON THE LABEL: NT-350HT Composite Prepreg

OTHER MEANS OF IDENTIFICATION: Not known

CHEMICAL FORMULA: Not Known

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

RELEVANT USES: Product of composite parts

RESTRICTONS OF USE: Uses other than described above.

NAME, ADDRESS AND TELEPHONE NUMBER OF THE CHEMICAL MANUFACTURER, IMPORTER, OR OTHER RESPONSIBLE PARTY:

COMPANY NAME : Mitsubishi Gas Chemical America, Inc.

COMPANY ADDRESS: 655 Third Avenue, 19th Floor
New York, NY 10017

COMPANY PHONE: 718-877-6217

CONTACT PERSON: Joseph Kidd
CONTACT EMAIL: technicalsupport@mgc-a.com

EMERGENCY PHONE NUMBER: Transportation Emergencies
U.S. (800) 424-9300 (Chemtrec)
Maritime (703) 527-3887 (Chemtrec)

SECTION 2 - HAZARD(S) IDENTIFICATION

CLASSIFICATION OF THE CHEMICAL IN ACCORDANCE WITH PARAGRAPH (d) OF §1910.1200;

GHS CLASSIFICATION:

Skin Irritation (Category 2), H315
Skin sensitizer (Category 1B), H317
Eye Irritation (Category 2A), H319





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SECTION 2 - HAZARD(S) IDENTIFICATION (continued)

SIGNAL WORD:

WARNING!

HAZARD STATEMENTS:

Causes skin irritation
May cause an allergic skin reaction.
Causes serious eye irritation.

PRECAUTIONARY STATEMENTS:

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust/fume/gas/mist/ vapors/spray.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin: Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If exposed or concerned: Get medical advice/attention.
Specific treatment (see section 4 to 8 on this SDS and any additional information on this label)
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Store locked up.
Dispose of contents/container to a suitable disposal site in accordance with local/regional/national/international regulations.

HAZARDS NOT OTHERWISE CLASSIFIED:

Excessive exposure to dust may cause skin, eye and respiratory irritation.

PERCENTAGE OF INGREDIENT(S) OF UNKNOWN ACUTE TOXICITY:

5% unknown acute toxicity (oral, dermal and inhalation)



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SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>%</u>	<u>CAS No.</u>
Epichlorohydrin polymer	3.8 – 6.7	Proprietary
Curing complex	2.7 – 2.9	Proprietary
Polymerization monomer	1.5 – 2.0	Proprietary
Butadiene-Acrylic Copolymer	0.3 – 3.2	Proprietary
Carboxylic acid	0.1 – 0.3	Proprietary
Perester	0.1	Proprietary

Note: One or more hazardous ingredient(s) is claimed as a trade secret under the OSHA Hazard Communication Standard. The hazards of this (these) ingredient(s) are given on this SDS.

The balance of the ingredients are not classified as hazardous or are below the concentration limit to be classified as hazardous, under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

SECTION 4 - FIRST-AID MEASURES

DESCRIPTION OF NECESSARY MEASURES, SUBDIVIDED ACCORDING TO THE DIFFERENT ROUTES OF EXPOSURE, I.E., INHALATION, SKIN AND EYE CONTACT, AND INGESTION:

IF INHALED:

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

IN CASE OF SKIN CONTACT:

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IN CASE OF EYE CONTACT:

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

IF SWALLOWED:

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.



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SECTION 4 - FIRST-AID MEASURES (continued)

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of damaging fertility or the unborn child.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

If any symptoms are observed, contact a physician and give them this SDS sheet.

SECTION 5 - FIRE-FIGHTING MEASURES

SUITABLE (AND UNSUITABLE) EXTINGUISHING MEDIA:

SUITABLE EXTINGUISHING MEDIA:

Use water, regular foam, dry chemical or carbon dioxide as appropriate for other materials involved in the fire.

UNSUITABLE EXTINGUISHING MEDIA:

Do not use water jet as an extinguisher, as this will spread the fire.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL (E.G., NATURE OF ANY HAZARDOUS COMBUSTION PRODUCTS):

None known.

Hazardous combustion products may include the following substances:

Carbon dioxide, carbon monoxide, aldehydes, acids, soot, fumes.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:

Keep personnel away from the fire. Move the container(s) from area if it can be done without risk. Use water to keep fire-exposed containers cool and disperse vapors.

If ignited, isolate the combustion source and use general fire extinguishing methods.

Wear full protective clothing and self-contained breathing apparatus with full face-piece.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Persons not wearing protective equipment should be excluded from the area of the spill until clean-up has been completed.

Wear appropriate protective equipment, such as gloves, goggles and protective clothing, as conditions warrant (see Section 8). Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid contact with skin and eyes. Evacuate personnel to safe areas. Keep out of



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SECTION 6 - ACCIDENTAL RELEASE MEASURES (continued)

the reach of children. See Sections 2 and 7 for additional information on hazards and precautionary measures.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Shovel spilled material into a plastic bag. Thoroughly sweep up residual material. Avoid generating dust during clean-up operation. Collect and place the product in suitable containers for disposal or recovery. Clean the spilled area to prevent any slip hazard. Do not let product enter drains.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Ensure good ventilation/exhaustion at the workplace. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Wash your hands before break and after working with the product.

PRECAUTIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBLES:

Keep away from direct light, high temperature, pH extremes and oxidation sources. Keep in properly labeled, factory sealed, with a label which complies with current regulations.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA PERMISSIBLE EXPOSURE LIMIT (PEL), AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH) THRESHOLD LIMIT VALUE (TLV), AND ANY OTHER EXPOSURE LIMIT USED OR RECOMMENDED BY THE CHEMICAL MANUFACTURER, IMPORTER, OR EMPLOYER PREPARING THE SAFETY DATA SHEET, WHERE AVAILABLE.

EXPOSURE GUIDELINES:

Polymerisation monomer

ACGIH TWA – 20 ppm
NIOSH TWA – 20 ppm, 70 mg/m³

Carboxylic acid

ACGIH TWA – 20 ppm
NIOSH TWA – 20 ppm, 70 mg/m³



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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

APPROPRIATE ENGINEERING CONTROLS:

During industrial use, use material in well-ventilated area only. Good general ventilation should be sufficient in most cases. Ventilation rates should be matched to conditions. Maintain airborne levels to an acceptable level. Use appropriate personal protective equipment and clothing.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

EYE / FACE PROTECTION:

Use goggles and a face shield that has been tested and approved under appropriate government standards such as NIOSH(US).

SKIN AND HAND PROTECTION:

Wear safety glasses or splash goggles when handling any chemical substance. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. The selected protective gloves have to satisfy the specifications of ASTM F739.

RESPIRATORY PROTECTION:

Respiratory protection not required. For nuisance exposures use respirators and components tested and approved under appropriate government standards such as NIOSH (US). Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

GENERAL HYGIENE CONSIDERATIONS:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.):

Physical state: Not determined

Color: Not determined

Odor: Not determined

Odor Threshold: Not determined

pH: Not determined

Melting point/freezing point:

Melting point: Not determined

Freezing Point: Not determined

Initial Boiling Point: Not determined
and boiling range

Flash Point: Not determined

Evaporation Rate: Not determined

Flammability (solid, gas): Not determined

Upper/lower flammability or explosive limits:

Upper Explosion Limit: Not determined

Lower Explosion Limit: Not determined

Vapor Pressure Not determined

Vapor Density (Air = 1): Not determined

Relative density Not determined

Solubility(ies) in Water: Not determined

Partition coefficient Not determined

(n-octanol/water):

Autoignition Temperature: Not determined

Decomposition temperature: Not determined

Viscosity: No data available

SECTION 10 - STABILITY AND REACTIVITY

REACTIVITY:

No hazardous reactions anticipated under normal storage and handling conditions.

CHEMICAL STABILITY:

Stable under normal ambient and anticipated conditions of use.

POSSIBILITY OF HAZARDOUS REACTIONS:

None expected

CONDITIONS TO AVOID:

Avoid dust formation, ignition sources and excess heat.



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SECTION 10 - STABILITY AND REACTIVITY (continued)

INCOMPATIBLE MATERIALS:

Materials to avoid include Strong bases, strong acids, strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition may release Irritant, caustic, flammable, noxious/toxic gases and Vapors.

SECTION 11 - TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE:

Inhalation: Expected to be a route of entry.

Ingestion: Expected to be a route of entry.

Skin: Expected to be a route of entry.

Eyes: Expected to be a route of entry.

Target Organs: Respiratory system, Skin.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL, AND TOXICOLOGICAL CHARACTERISTICS:

Eyes: Causes serious eye irritation

Skin: Prolonged or repeated exposure causes skin irritation. May cause an allergic skin reaction.

Inhalation: Breathing dust in concentrations exceeding the established exposure limits can cause irritation of the nose and throat.

Ingestion: May cause irritation to the mouth and throat.

DELAYED AND IMMEDIATE EFFECTS AND CHRONIC EFFECTS FROM SHORT OR LONG-TERM EXPOSURE:

Immediate: Causes skin irritation and serious eye irritation.

Delayed: May cause an allergic skin reaction.

Chronic: Inhalation of particles may cause respiratory irritation

NUMERICAL MEASURES OF TOXICITY (SUCH AS ACUTE TOXICITY ESTIMATES):

For the product: None known.

ACUTE TOXICITY

Epichlorohydrin polymer

Acute oral LD50 (rat) - greater than 2,000 mg/Kg

Acute dermal LD50 (rabbit) – 6,400 mg/Kg

Acute inhalation LC50 (rat) – 17 mg/l – 6h



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SECTION 11 - TOXICOLOGICAL INFORMATION (continued)

Carboxylic acid

Acute oral LD50 (rat) - 1,200 mg/Kg

Acute dermal LD50 (rabbit) – 500 mg/Kg

Perester

Acute oral LD50 (rat) – 4,838 mg/Kg

Acute dermal LD50 (rabbit) – 3,817 mg/Kg

Acute inhalation LC50 (rat) – > 1.01 mg/l – 4h

SKIN CORROSIVE/ IRRITATION

Causes skin irritation.

SERIOUS EYE DAMAGE/EYE IRRITATION

Causes serious eye irritation

RESPIRATORY ORGANS SENSITIZATION

Inhalation of particles may cause respiratory irritation

SKIN SENSITIZATION

May cause an allergic skin reaction

GERM CELL MUTAGENICITY

Not known

CARCINOGENICITY

This product is not reported to have any carcinogenic effects. This product (or components) is not listed in IARC Monographs, the current NTP Report on Carcinogens or the current ACGIH TLVs as a carcinogen or potential carcinogen. OSHA does not regulate it as a carcinogen.

REPRODUCTIVE TOXICITY

Not know

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

Inhalation of particles may cause respiratory irritation

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE

Not known

ASPIRATION HAZARD

Not known



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SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY (AQUATIC AND TERRESTRIAL, WHERE AVAILABLE):

Epichlorohydrin polymer

Fish LC50 Pimephales promelas (fathead minnow) - 4.6 mg/l - 96 h

Invertebrates LC50 - Daphnia magna (Water flea) - 10.2 mg/l - 48 h

Algae ErC50 Pseudokirchneriella subcapitata (green algae) - 2.73 - 3.1 mg/l - 96 h

Perester

Fish LC50 Poecilia reticulata (Guppy) - 8.6 mg/l - 96 h

Algae ErC50 Freshwater algae - 0.8 mg/l - 72 h

PERSISTENCE AND DEGRADABILITY

Not known

BIOACCUMULATIVE POTENTIAL

Not known

MOBILITY IN SOIL

Not known

OTHER ADVERSE EFFECTS (SUCH AS HAZARDOUS TO THE OZONE LAYER)

Harmful to the aquatic environment.

SECTION 13 - DISPOSAL CONSIDERATIONS

DESCRIPTION OF WASTE RESIDUES AND INFORMATION ON THEIR SAFE HANDLING AND METHODS OF DISPOSAL, INCLUDING THE DISPOSAL OF ANY CONTAMINATED PACKAGING.

Dispose of waste materials in accordance with applicable local and national laws and regulations. Where possible, recycling is preferred to disposal or incineration. Contact the proper local authorities.

Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

U.S. DOT, TDG (CANADIAN), IMO (WATER) AND ICAO (AIR) TRANSPORT INFORMATION:
NOT CLASSIFIED AS HAZARDOUS FOR TRANSPORT.



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SECTION 15 - REGULATORY INFORMATION

TSCA INFORMATION:

All components in this product are in compliance with TSCA Inventory requirements or exempt from reporting.

CEPA:

All components in this product are included on the Canadian Domestic Substances List (DSL) or exempt from reporting.

SARA:

SARA 313 INFORMATION:

SARA requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372. This information must be included in all MSDS that are copied and distributed for this material.

Components present in this product at a level that could require reporting under the statute are: None

SECTION 16 - OTHER INFORMATION

PREPARATION DATE: April 1, 2021

REASON FOR REVISION: New product SDS.

The product information contained herein is believed to be accurate as of the date of the Safety Data Sheet, and is provided without warranty, expressed or implied, as to the results of use of this information or the product to which it relates. Recipient assumes all responsibility for the use of this information and the use (alone or in combination with any other product), storage or disposal of the product, including any resultant personal injury or property damage.

END OF REPORT