

H-300 High Gloss Armor Clear / H-301 Matte Armor Clear (Part A)

SDS Number:

Revision Date: 9/4/2014

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

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Product Name: H-300 High Gloss Armor Clear / H-301 Matte Armor Clear (Part A)
Revision Date: 9/4/2014
Version: 2.0
Product Code: H-300

EMERGENCY CONTACT: Call PERS: 1-800-633-8253 (USA) or 011-1-801-629-0667 (International)

2 HAZARDS IDENTIFICATION

Route of Entry: Eyes, Ingestion, Inhalation, Skin
Target Organs: Respiratory System, Integumentary System, Digestive System and Nervous System.
Inhalation: May cause irritation to the respiratory system and coughing. May produce symptoms of central nervous system depression.
Skin Contact: Causes irritation. May cause an allergic skin reaction, sensitization, redness and dermatitis. Prolonged or repeated exposure may aggravate existing conditions.
Eye Contact: Causes irritation. May cause pain, watering or redness.
Ingestion: May cause gastrointestinal irritation, gastric distress or stomach pains.

NFPA: Health = 2, Fire = 2, Reactivity = 0
HMIS III: H2/F2/PH0



HMIS III	
HEALTH	2
FLAMMABILITY	2
PHYSICAL HAZARDS	0
PERSONAL PROTECTION	

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GHS Signal Word:

DANGER

GHS Hazard Pictograms:



GHS Classifications:

Health, Acute toxicity, 5 Oral
Health, Skin corrosion/irritation, 2
Health, Respiratory or skin sensitization, 1 Skin
Health, Serious Eye Damage/Eye Irritation, 2 B
Health, Acute toxicity, 5 Inhalation
Health, Specific target organ toxicity - Single exposure, 3
Health, Carcinogenicity, 1
Health, Specific target organ toxicity - Single exposure, 2
Environmental, Hazards to the aquatic environment - Acute, 2

GHS Phrases:

H303 - May be harmful if swallowed
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H320 - Causes eye irritation
H333 - May be harmful if inhaled
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H350 - May cause cancer
H371 - May cause damage to organs
H401 - Toxic to aquatic life

GHS Precautionary Statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
P211 - Do not spray on an open flame or other ignition source.
P235+410 - Keep cool. Protect from sunlight.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/light/equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P262 - Do not get in eyes, on skin, or on clothing.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P281 - Use personal protective equipment as required.
P284 - Wear respiratory protection.
P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 - IF ON SKIN: Seek immediate medical attention.
P302+352 - IF ON SKIN: Wash with soap and water.
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 - IF INHALED: Seek immediate medical attention.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 - IF IN EYES: Seek immediate medical attention.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do.

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Continue rinsing.

P306+360 - IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

P308+313 - IF exposed or concerned: Get medical advice/attention.

P332+313 - If skin irritation occurs: Get medical advice/attention.

P337 - If eye irritation persists: Seek immediate medical attention.

P342 - If experiencing respiratory symptoms: Seek immediate medical attention.

P362 - Take off contaminated clothing and wash before reuse.

P370+376 - In case of fire: Stop leak if safe to do so.

P370+378 - In case of fire: Use CO2, dry chemical powder, foam or water spray for extinction.

P370+380 - In case of fire: Evacuate area.

P372 - Explosion risk in case of fire.

P374 - Fight fire with normal precautions from a reasonable distance.

P381 - Eliminate all ignition sources if safe to do so.

P402+404 - Store in a dry place. Store in a closed container.

P403+233 - Store in a well ventilated place. Keep container tightly closed.

P403+235 - Store in a well ventilated place. Keep cool.

P411 - Store at temperatures not exceeding 90 °F.

P420 - Store away from other materials.

P501 - Dispose of contents/container to licensed waste disposal contractor.

P250 - Do not subject to grinding/shock/friction.

NOTE: Parachlorobenzotrifluoride is listed as a VOC Exempt solvent. 2-propanol,1-methoxy-,2-acetate and 1-propanol,2-methyl- are VOC solvents.

Heated material can cause thermal burns.

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COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Percentage	Chemical Name
98-56-6	70-75%	Parachlorobenzotrifluoride
	20-25%	Proprietary Formulation
108-65-6	4-5%	2-Propanol, 1-methoxy-, acetate
78-83-1	<0.5%	1-Propanol, 2-methyl-

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FIRST AID MEASURES

- Inhalation:** Remove to fresh air. Keep person warm and at rest. If breathing is difficult, have trained person administer oxygen. If breathing stops, have trained person administer artificial respiration. Warning: It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious place in recovery position. Maintain an open airway. Loosen tight clothing. Seek immediate medical attention.
- Skin Contact:** Wash and flush thoroughly with water for at least 15 minutes while removing contaminated clothing and shoes. For contact with hot material, use large amounts of cold water, dry burn area and loosely cover with gauze. Wash all clothing before re-use. Seek immediate medical attention.
- Eye Contact:** Remove any contact lenses. Immediately flush with water for at least 15 minutes, forcibly holding eyelids apart. Seek immediate medical attention.
- Ingestion:** Rinse mouth out and then drink plenty of water. Remove any dentures. Moved exposed person to fresh air and keep warm and at rest. Only induce vomiting at the instruction of medical personnel. Vomiting may be dangerous. Keep head low so vomit does not enter the lungs. Never induce vomiting or give anything by mouth to an unconscious or convulsing person. If unconscious, place in recovery position. Maintain an open airway. Loosen tight clothing. Seek immediate medical attention.

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FIRE FIGHTING MEASURES

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Flash Point: Not Available

Extinguishing Media:

Carbon dioxide, dry chemical powder, foam or water spray.

Fire Fighting Procedures:

Evacuate all unnecessary personnel. Shut down motors, pumps, electrical service, and eliminate sources of ignition. Use water spray to cool containers and avoid pressure build-up. If fire occurs, isolate area, contain and eliminate fire, then dispose of debris in accordance with official regulations. Wear self-contained breathing apparatus and full protective clothing.

Fire and Explosion Hazard:

Contains possibly combustible materials. Over-heated containers may rupture. Fumes may be flammable/explosive in air when in the presence of an ignition source. Vapors may travel a significant distance to a source of ignition and flash back.

Sensitivity of Static Charge:

Electrostatic charge may build up during handling. Grounding of equipment is recommended.

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ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Evacuate all unnecessary personnel and surrounding areas, and eliminate all sources of ignition. Wear proper personal protective equipment, especially a self-contained breathing apparatus. No action shall be taken involving any personal risk or without suitable training. Do not touch or walk through spilled material. Provide adequate ventilation and avoid breathing vapors.

Environmental Precautions:

Contain liquids and prevent discharge into streams, soil, waterways, drains and sewers. Control or stop the loss of volatile material to the atmosphere. Do not apply water to the spill. Spills should be reported to the appropriate local, state, or federal agencies especially if environmental pollution occurs. In case of emergencies, contact CHEMTREC at 1(800) 424-9300.

Remove all sparking devices or ignition sources. Stop leak if without risk. Move containers from spill area. Approach spill from upwind. Cover with an inorganic absorbent, such as vermiculite, perlite, ground clay, or sand; sweep up, and dispose according to local, state and federal regulations. Contaminated absorbent may pose the same hazard as spilled material does. Use spark proof tools and explosion proof equipment. Dispose of via a licensed waste disposal contractor.

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HANDLING AND STORAGE

Handling Precautions:

Avoid vapor formations and use with adequate ventilation.
Avoid breathing fumes.
Vapors are heavier than air and will tend to collect in low areas. Avoid use in confined spaces.
Avoid bodily contact with material.
Wear appropriate personal protective equipment.
Wash thoroughly after handling, avoid contact with eyes.
No eating, drinking or smoking near areas where substance is handled, processed or stored.
Do not allow workers with a history of skin sensitization or respiratory diseases to use.
Ground coating equipment and containers at all times.
Use non sparking tools.
Isolate, vent, drain, wash and purge systems or equipment before maintenance or repair.
Clean spills immediately.

Storage Requirements:

Keep away from heat and all sources of ignition.
Avoid moisture and static electricity discharges.
Avoid shock and friction.
Store in a cool, dry area away from direct sunlight (do not store above 95 oF or below 55 oF).
Do not allow cross-contamination, and keep away from incompatible materials.
Keep tightly closed when not being used.
Label all containers appropriately.
Do not reuse containers.
Do not store near food or drinks.

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Avoid excessive aging.
Store in accordance with local regulations.

8	EXPOSURE CONTROLS/PERSONAL PROTECTION
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Engineering Controls: Adequate room ventilation plus local exhaust at points of emission to maintain levels of airborne contaminants below exposure limits (consult local authorities for acceptable exposure limits). Assure ACGIH TWA and OSHA PEL limits of 1-propanol,2-methyl- (50 ppm, 100 ppm) are maintained. Use of fume hoods or closed booths recommended when product is used in a manner that may generate mist or aerosol.

Personal Protective Equip: HMIS PP, F | Goggles, Chemical Resistant Gloves, Apron (protective industrial clothing recommended along with apron), Dust Respirator.

Respiratory: Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application of powder/dusts. Follow respirator manufacturer's directions for respirator use.

Hands: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times. Neoprene, butyl or nitrile rubber gloves with cuffs recommended.

Eyes: 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 or dusts. Safety glasses with side shields should be worn at a minimum.

Skin: 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. Impervious work clothing such as long sleeves, long pants and chemical boots and chemical resistant apron recommended.

Emergency shower and eyewash facility should be in close proximity. Employ proper hygienic measures after working with material and before eating, smoking or using the lavatory. Fully wash any contaminated clothing.

Emissions from ventilation or work process equipment should be checked to ensure they comply with the regulations of environmental protection legislation.

9	PHYSICAL AND CHEMICAL PROPERTIES
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Appearance:	Clear liquid that hardens into a ceramic via oven cure		
Physical State:	Liquid (solid after cure)	Solubility:	Insoluble
Spec Grav./Density:	1.25 g/cm3	VOC:	~5-6%

10	STABILITY AND REACTIVITY
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Stability: Stable.

Conditions to Avoid: Heat/flames, sources of ignition, extreme temperatures, electrostatic discharges and vapor formation.

Materials to Avoid: Strong oxidizing agents, strong acids, strong alkalis and organic materials.

Hazardous Decomposition: May contain carbon oxide(s), silicon dioxide, hydrocarbons, chlorine and fluorine.

Hazardous Polymerization: Not anticipated.

11	TOXICOLOGICAL INFORMATION
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NTP Carcinogen: No IARC Monographs: Yes OSHA Regulated: No

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Not known to contain any ingredients recognized as carcinogens by the National Toxicology Program (NTP), the International Agency for Cancer Research (IARC) or the Occupational Safety and Health Administration (OSHA).

Animal studies have shown that parachlorobenzotrifluoride shows significant increases in target organ toxicity. For further information refer to specific reports on parachlorobenzotrifluoride.

Parachlorobenzotrifluoride:
Oral (LD50): 11500 mg/kg (rat)
Inhalative(LC50): 20 g/m3 (rat)

12 ECOLOGICAL INFORMATION

Water hazard class 2: Hazardous for water and toxic to aquatic organisms.
Avoid disposal in landfills and sewage systems. Avoid release into water sources. Product has not been tested for environmental effects.

13 DISPOSAL CONSIDERATIONS

This product is not regulated by the EPA. It is the waste generator's responsibility to determine how disposal must occur. Disposal should be made in accordance to federal, state, and local regulations. Minimize or avoid the generation of waste whenever possible. Dispose of waste, unused material and empty containers in a licensed facility. Do not discharge into drains, surface waters or groundwater.

14 TRANSPORT INFORMATION

IATA: Not Regulated

15 REGULATORY INFORMATION

HCS Classification: Not Regulated
U.S. Federal Regulations: TSCA All components are listed or exempted
SARA 302/304/311/312: Acute, Fire.

This product contains no toxic chemicals above the reporting requirements of SARA 313.

California Proposition 65:
This product contains chemical(s) known to the state of California to cause cancer and birth defects, or other reproductive harm.

Rule 66 status of product: Not photochemically reactive.

Canadian DSL Inventory Status: This product contains materials not listed on the Canadian DSL (listed on the Canadian NDSL).

*Parachlorobenzotrifluoride(98566 70-75%) TSCA

*2-Propanol, 1-methoxy-, acetate (108656 4-5%) TSCA

*1-Propanol, 2-methyl- (78831 <0.5%) CERCLA, MASS, OSHAWAC, PA, TOXICRCRA, TSCA, TXAIR, TXHWL

REGULATORY KEY DESCRIPTIONS

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TSCA = Toxic Substances Control Act
CERCLA = Superfund clean up substance
MASS = MA Massachusetts Hazardous Substances List
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)
TXAIR = TX Air Contaminants with Health Effects Screening Level
TXHWL = TX Hazardous Waste List

RoHS Directive: This product complies with the RoHS (Restriction of Hazardous Substances) Directive.

U.S. Toxic Substances Control Act: All components of this product are on the TSCA Inventory or are exempt from the TSCA Inventory requirements under 40 CFR 720.30.

The information contained in this Safety Data Sheet is considered to be true and accurate. NIC Industries, Inc. makes no warranties, expressed or implied, as to the accuracy and adequacy of this information. This data is offered solely for the user's consideration, investigation and verification.

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OTHER INFORMATION

U.S. Federal Regulations:

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you (as it is your legal duty to) make all information in this Material Safety Data Sheet available to all your employees.

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