

SAFETY DATA SHEET

SECTION 1. Identification

GHS product identifier: Green Zero Rust
Product code: AR-70FG, AR-70GA, AR-70QT
Product use: Non flat coating

Supplier details: Amteco, Inc.
1100 Jefferson Street
P.O. Box 9
Pacific, MO 63069
U.S.A.
Phone (636)271-1300
Fax (636)271-2211

Emergency telephone: CHEMTREC (800)424-9300

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 mixture** FLAMMABLE LIQUIDS – Category 3
SKIN IRRITATION – Category 2
EYE IRRITATION – Category 2
SPECIFIC TARGET ORGAN TOXICITY (single exposure) – Category 2
ASPIRATION HAZARD – Category 1
ACUTE TOXICITY – Category 4
CARCINOGENICITY – Category 2
AQUATIC CHRONIC – Category 2



Hazard pictograms:

Signal word: Danger

Hazard statements: Highly flammable liquid or vapor.
May be fatal if swallowed or enters airways.
Harmful if inhaled.
Causes skin irritation.
Causes eye irritation.
May cause respiratory irritation or cause drowsiness or dizziness.
Suspected of causing cancer.
Toxic to aquatic life with long lasting effects.

Prevention: Keep away from heat/sparks/flames and hot surfaces. No smoking. Ground/bond containers and receiving equipment. Use only non-sparking tools. Use explosion proof electric/ventilating/lighting and equipment. Take precautionary measures against static discharge. Avoid breathing dust/fumes/gas/mist/vapor or spray. Use only outdoors or in well ventilated areas. Wear protective gloves/protective clothing/eye protection and face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash hands thoroughly after handling.

Response: IN CASE OF FIRE use appropriate method to extinguish. IF SWALLOWED immediately call poison control center/doctor. Do NOT induce vomiting. IF ON SKIN wash with plenty of soap and water. If skin irritation occurs get medical advice/attention. IF IN EYES rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritations persists get medical advice/attention. IF INHALED remove victim to fresh air and keep comfortable for breathing. Call a poison control center/doctor if you feel unwell. If exposed or concerned get medical advice/attention. IN CASE OF SPILL absorb spilled liquid with suitable absorbent material.

Storage: Store in a well ventilated place. Keep cool. Store locked up. Keep containers tightly closed.

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

SECTION 3. Composition/Information on ingredients

Component	CAS#	% by Wt.
TETRACHLOROETHYLENE	127-18-4	9.18
PARACHLOROBENZOTRIFLUORIDE	98-56-6	7.00
2-PROPANONE	67-64-1	6.00
NORMAL BUTYL ACETATE	123-86-4	5.00
METHYL PROPYL KETONE	107-87-9	4.00
SOLVENT NAPHTHA PETROLEUM HEAVY AROMATIC	64742-94-5	2.00
XYLENE	1330-20-7	0.76
ETHYL BENZENE	100-41-4	0.18

There are no additional ingredients or components present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. First aid measures

Eye contact: Immediately flush eyes with plenty of water occasionally lifting the upper and lower eyelids. Check for and remove contact lenses. Continue to rinse for at least 15 minutes. Get medical attention.

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison control center or physician. 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 skin thoroughly with soap and water or use recognized skin cleanser. 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.

Ingestion:

Get medical attention immediately, Call a poison control center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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.

SECTION 5. Fire-Fighting measures

**Suitable extinguishing:
Media**

Use dry chemical, CO₂, water spray(fog) or foam.

**Unsuitable :
Extinguishing media**

Do not use water jet.

**Unusual fire and:
Explosion Hazards**

Flammable liquid and vapor. Vapors can travel to a source of ignition and flash back. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do NOT pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity or other sources of ignition. Also, do not reuse container without commercial cleaning or reconditioning. Closed container may explode under extreme heat.

**Special Firefighting:
Procedures**

As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Evacuate all unnecessary personnel. Shut down motors, pumps, electrical service and eliminate all sources of ignition. Water spray to cool containers or protect personnel. Use with caution. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

SECTION 6. Accidental release measures

Spill containment: And clean up

Wear appropriate personal protective equipment. (See Section 8). Eliminate all ignition sources. Evacuate unnecessary personnel. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Do not apply water to the leak. Collect spilled material for disposal. Use only non-combustion material for clean-up. Use clean, non-sparking tools to collect absorbed materials. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Recover large spill by pumping with an explosion proof pump.

SECTION 7. Handling and storage

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. Avoid exposure – obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not swallow. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material. Keep tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Safe storage:

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well ventilated area away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. 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.

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.

SECTION 8. Exposure controls/personal protection

Occupational exposure limits

Component

TETRACHLOROETHYLENE

Exposure limits

OSHA PEL: 100 PPM

ACGIH TLV: 100 PPM

PARACHLOROBENZOTRIFLUORIDE

Not Determined

2-PROPANONE

OSHA PEL: 750 PPM TWA

ACGIH TLV: 750 PPM TWA

ACGIH TLV: 1000 PPM STEL

NORMAL BUTYL ACETATE

OSHA PEL: 150 PPM TWA

ACGIH TLV: 150 PPM TWA

ACGIH TLV: 200 PPM STEL

METHYL PROPYL KETONE

OSHA PEL: 200 PPM

ACGIH PEL: 200 PPM

SOLVENT NAPTH PETROLEUM HEAVY AROMATIC

OSHA PEL: 25 PPM TWA

ACGIH TLV: 25 PPM TWA

ACGIH TLV: 15 PPM STEL

XYLENE

OSHA PEL: 100 PPM

ACGIH TLV: 100 PPM

ETHYL BENZENE

OSHA PEL: 100 PPM TWA

ACGIH TLV: 100 PPM TWA

ACGIH TLV: 125 PPM STEL

Respiratory protection:

NIOSH/MSHA approved respirators may be necessary if airborne concentrations are expected to exceed exposure limits.

Skin protection:

Wear impervious gloves to prevent contact with the skin. Wear protective gear as needed – apron, suit, boots

Eye protection:

Wear safety glasses with side shields (or goggles) and a face shield.

Other protective: Equipment

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Hygiene measures:

Do not eat, drink or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating, drinking or smoking.

SECTION 9. Physical and chemical properties

Appearance:	Green liquid	Physical State:	Liquid
Odor:	Solvent	Odor Threshold:	Not available
PH:	Not available	Melting Point:	Not available
Boiling Point:	133° F	Flash Point:	35° F Tag Closed Cup
Upper Flammable Limit:	12.8	Lower Flammable Limit:	0.9
Vapor Pressure:	12 mm HG	Vapor Density:	>1 (Air=1)
Auto-ignition Temperature:	698° F	Water Solubility:	Insoluble
Density:	1.3952	Freeze Point:	Not available

SECTION 10. Stability and reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	This product is stable.
Hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	Avoid all possible sources of ignition (sparks or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatible materials:	Strong oxidizing agents
Hazardous: Decomposition products	Hazardous decomposition products are not expected to form during normal storage. During combustion carbon monoxide and carbon dioxide may be formed.

SECTION 11. Toxicological information

Component	LD50(oral)	LD50(dermal)	LC50(vapor)
TETRACHLOROETHYLENE	2629mg/kg rat	3228mg/kg rabbit	5200mg/l 4hrs
PARACHLOROBENZOTRIFLUORIDE	6800mg/kg rat	2700mg/kg rabbit	4474mg/l 4hrs
2-PROPANONE	3000mg/kg rat	20000mg/kg rabbit	44000mg/l 4hrs
NORMAL BUTYL ACETATE	14130mg/kg rat	8770mg/kg guinea pig	Not Determined
METHYL PROPYL KETONE	1600mg/kg rat	20mg/kg guinea pig	25.5mg/l 4hrs
SOLVENT NAPHTHA PETROLEUM HEAVY AROMATIC	5000mg/kg rat	2000mg/kg rabbit	20mg/l 4hrs
XYLENE	2.6g/kg rat	Not Determined	8000mg/l 4hrs
ETHYL BENZENE	3500mg/kg rat	17800mg/kg rabbit	17.2mg/l 4hrs

Likely routes of exposure: Eye contact, inhalation, ingestion, skin contact

Effects of Overexposure

Inhalation:	Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression which can cause death. Vapor harmful. Concentrated vapors in confined areas may be fatal. The odor warning when the exposure limit value is exceeded is insufficient. Use of alcohol beverages enhances the harmful effects.
Eye and Skin contact:	Primary irritation to skin, defatting, and dermatitis. Primary irritation to eyes, redness, tearing and blurred vision. Liquid can cause eye irritation. Wash thoroughly after handling.
Ingestion:	May cause gastrointestinal tract irritation, nausea, vomiting, and diarrhea. The symptoms of chemical pneumonitis may not show up for several days.
Chronic hazards:	Overexposure may cause nervous system damage. Overexposure may cause kidney damage. May cause liver disorder (e.g. edema, proteinuria) and damage. Significant exposure to this product may adversely affect people with chronic disease of the respiratory system, skin and/or eyes.
Carcinogenicity:	Ethylbenzene Cas No. 100-41-4 2B possibly carcinogenic to humans Xylene Cas No. 1330-20-7 3 not classified as to carcinogenicity to Humans
Reproductive Toxicity:	Suspected of damaging fertility or the unborn child.
Germ Cell Mutagenicity:	No data available.

SECTION 12. Ecological information

Toxicity

Aquatic Life:	This product is toxic to aquatic life and may cause long term effects in the aquatic environment.
Plant Life:	This product may be harmful or fatal to plant life if released into the environment.
Mobility in soil:	This material is a mobile liquid.
Biodegradation:	No data available.
Accumulation:	No data available.

SECTION 13. Disposal considerations

Disposal Instructions:	Must not be disposed of together with household garbage. Do not allow product to reach sewage system or water supplies. Dispose of in accordance with FEDERAL, STATE and LOCAL regulations. Since empty containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition: do not cut, drill, grind or weld on or near this container.
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SECTION 14. Transport information

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situations.

DOT: UN 1263 Paint 3 II

IMDG: UN 1263 Paint 3 II

IATA: UN 1263 Paint 3 II

SECTION 15. Regulatory information

EPA Regulations:

Sara Section 311/312 Hazards: Acute Health, Chronic Health, Fire

Sara Title III Ingredients:

TETRACHLOROETHYLENE
2-PROPANONE
XYLENE
ETHYL BENZENE

Inventory status: All components are on TSCA, EINCS/ELINCS, AICS and DSL

Canadian Regulations:

WHMIS Hazard Classification: B2, D2A, D2B

State Regulations:

California Prop 65: This product contains the following chemicals known to the State of California to cause cancer.

TETRACHLOROETHYLENE
XYLENE
ETHYL BENZENE

Massachusetts RTK:

XYLENE and ETHYL BENZENE

New Jersey Worker and Community RTK:

XYLENE and ETHYL BENZENE

Pennsylvania Worker and Community RTK:

XYLENE and ETHYL BENZENE

Rhode Island RTK:

XYLENE and ETHYL BENZENE

SECTION 16. Other information

Disclaimer:

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. WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. Alteration of this document is strictly prohibited. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, State, Provincial and local laws and regulations.

HMIS Hazard Rating:

Health – 2 Flammability – 3 Chemical Reactivity - 0