SAFETY DATA SHEET
FOR COATINGS, RESINS, AND RELATED MATERIALS

SECTION I – Chemical Product and Company Identification

Product name: Gutta Resist- 780 Clear
Catalog Code: JAC1780, JAC2780 and JAC3780
Supplier: Dharma Trading Company
1805 South McDowell Blvd. Ext.
Petaluma, CA 94954 USA
Product class: Solvent-based rubber adhesive
Material uses: Resin used for silk – painting arts
Information telephone number: 800-442-0455
Emergency telephone number: (800) 424-9300 Chemtrec
(703) 527-3887 Outside the United States

SECTION II – Hazards identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product:

Flammable Liquids	2	
Skin Corr. /Irrit.	2 Skin	irritation
Eye Dam. /Irrit.	2A	serious eye damage/eye irritation
Reproductive Toxicity	2	
STOT SE	3	Central nervous system
STOT RE	2	Central nervous system, Peripheral nervous system
Aspiration hazard	1	

Label elements
Pictogram:

Signal Word: Danger

Hazard Statement:
H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs (Auditory system, Eyes) through prolonged or repeated exposure if inhaled.

Precautionary Statements (Prevention):
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/gas/mist/vapours.
P264 Wash with plenty of water and soap thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.

Precautionary Statements (Response):
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P331 Do NOT induce vomiting.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.

Precautionary Statements (Storage):
P233 Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
Precautionary Statements (Disposal):
P501 Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified:
According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Potential health effects:

Carcinogenicity:
For Component: VMP Naphtha

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

For Component: Isopropanol

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

SECTION III – Composition/Information on Ingredients

Hazardous Components

Components	CAS number	EINECS number	% by Weight
Isopropanol	67-63-0	200-661-7	2.0 %
Distillates, pet, lt dist hydrotreat Process, low-boil AND/OR Naphtha (pet), hydrotreated lt AND/OR Solvent Naphtha (pet), it aliph.	68410-97-9 64742-49-0 64742-89-8	270-093-2 265-151-9 289-220-8	85.0 %

SECTION IV – FIRST AID MEASURES

Eye Contact:
In case of contact, flush eyes with plenty of lukewarm water. Use fingers to ensure that the eyelids are separated and that the eye is being irrigated. Get medical attention if irritation develops.

Skin Contact:
In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Call physician if irritation develops or persists. Thoroughly clean shoes before reuse. Wash contaminated clothing before reuse.

Inhalation:
If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

Ingestion:
If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

SECTION V – FIRE FIGHTING MEASURES

Suitable Extinguishing Media:
Use water, foam or dry chemicals.

Special Fire Fighting Procedures:
Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Toxic and irritating gases/fumes may be given off during burning or thermal decomposition. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.

Unusual Fire/Explosion Hazards:
Vapors are heavier than air and may travel a considerable distance to a source of ignition and flashback. Vapors or fumes may foam explosive mixture with air.

Hazardous Thermal Decomposition Products:
In case of fire, may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, (dense) black smoke, aldehydes, organic acids, nitrogen oxides, ammonia, amines.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Spill and Leak Procedures:
Contain spill. If spilled in an enclosed area ventilate. Wear proper personal protective clothing and equipment. Do not flush liquid in public sewer, water systems or surface waters. Recover as much as possible and absorb remainder with inert material. Place into labeled containers and store in safe locations for proper disposal. Wash spilled areas with soap and water.

SECTION VII – HANDLING AND STORAGE

Storage Temperature: Minimum: 5°C (41°F)
Maximum 40°C (104°F)

Handling:
Avoid eye contact, repeated or prolonged skin contact or inhalation of aerosol, mist or vapors. Wash thoroughly after handling. Use in well ventilated areas.

Storage:
Keep containers closed when not in use. Do not store in open, unlabeled or mislabeled containers. Product is not reactive or degraded by moisture, however protect from moisture contamination for performance purposes.

SECTION VIII – EXPOSURECONTROLS/ PERSONAL PROTECTION

Occupational Exposure Limits

ACGIH-TWA ACGIH-STEL OSHA-TWA OSHA-STEL

Isopropanol	200 ppm	400 ppm	400 ppm	500 ppm

Distillates, pet, lt dist hydrotreat Process, low-boil AND/OR Naphtha (pet), hydrotreated lt AND/OR Solvent Naphtha (pet), it aliph.	N/E	N/E	500 ppm	N/E

Engineering Controls:
Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal Protection

Eyes:
Chemical safety goggles or safety glasses with side-shields. Chemical safety goggles/safety glasses

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.

Respiratory:
Use a properly fitted, air-purifying or air fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and safe working limits of the known respirator.

Hand:
Permeation resistant gloves, Butyl rubber gloves, Nitrile rubber gloves, Neoprene gloves.

Additional Protective Measures:
Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available. Store separate from food products.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Appearance:	Paste
Odor:	Hydrocarbon-like
Solubility in Water:	N/A
PH:	N/A

Flash Point:	54° F. **Boiling**
Range:	180°F.
Evaporation Rate:	Slower than Ether
Vapor Density:	Heavier than Air
% Volatile by Weight:	86.0 %
Specific Gravity:	0.79
Lb. VOC/Gal. Coating:	5.56
VOC g/l:	666.23

SECTION X – STABILITY AND REACTIVITY

Stability:
This product is stable under normal storage and use conditions.

Hazardous Polymerization:
Will not occur.

Incompatibility:
Strong oxidizing agents, excessive heat.

Hazardous Decomposition Products:
Decomposition of the dry solids may generate irritating vapors, CO2, CO.

SECTION XI – TOXICOLOGICAL INFORMATION

Toxicity Data for XS-4139-N
Toxicity Note:
No data available for this product.

Toxicity Data for Isopropanol
Component:
67-63-0:
Acute Oral Toxicity:
LD50 (rat): 5,045 mg/kg

Acute Inhalation:
LC50 (rat): 16000 ppm

Acute Dermal Toxicity:
LD50 (rabbit): 12,800 mg/kg

Skin Irritation:
Component:

67-63-0:
Species: Rabbit
Result: Mild skin irritation.

Eye Irritant:
Component:
67-63-0:
Species: rabbit
Result: Irritating to eyes

Respiratory or Skin Sensitization:
Component:
67-63-0:
No data available.

Germ Cell Mutagenicity:
Component:
67-63-0:

Genetic Toxicity in Vitro:	Test Type: Ames test Test species: Salmonella typhimurium Result: negative
Genotoxicity in vivo:	Test Type: In vivo micronucleus test Test species: mouse Method: OECD Test Guideline 474 Result: negative
	Test Type: Dominant lethal assay Test species: mouse (male) Application Route: Inhalation (vapour) Exposure time: 6 h/d, 5 d/wk for 8 wks Dose: 0, 100, 400 ppm Result: negative
Germ cell mutagenicity-Assessment:	Did not show mutagenic effects in animal experiments.

Component:
Carcinogenicity:

67-63-0:

Species: rat
NOAEL: 5,000 ppm
Method: OECD Test Guideline 451

Carcinogenicity-Assessment: Not classified as a human carcinogen.

Toxicity to Reproduction/Fertility:
Component:
67-63-0:
Reproductive toxicity-
Assessment: Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.

STOT – single exposure (Isopropanol)
Component:
67-63-0:

Exposure routes:	Target Organs:	Assessment:	Remarks:
Inhalation	Central nervous system	May cause drowsiness or dizziness. The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	

STOT – repeated exposure (Isopropanol)
Component:
67-63-0:
No data available.

Toxicity Data for VMP Naphtha:
Component:

68410-97-9/64742-49-0/64742-89-8:

Acute Oral Toxicity:

LD50: >5,000 mg/kg
Species: (rat, male and female)
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral toxicity.

Acute inhalation toxicity:

Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity:

LD50: >2,000 mg/kg
Species: (rabbit, male and female)
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity.

Skin irritation:

Component:
68410-97-9/64742-49-0/64742-89-8:

Species: Rabbit
Exposure time: 4 h
Result: Irritating to skin.

Remarks: May cause skin irritation in susceptible persons.

Eye irritation:

Component:
68410-97-9/64742-49-0/64742-89-8:

Species: Rabbit
Result: Irritating to eyes.

Respiratory or Skin Sensitization:

Component:
68410-97-9/64742-49-0/64742-89-8:

Test Type: Buehler Test
Species: Guinea pig
Result: Did not cause sensitization on laboratory animals.

Germ Cell Mutagenicity:

Component:
68410-97-9/64742-49-0/64742-89-8:

Germ cell mutagenicity-
Assessment: Mutagenicity classification not possible from current data.

Carcinogenicity:
Component:
68410-97-9/64742-49-0/64742-89-8:
Carcinogenicity-Assessment: Carcinogenicity classification not possible from current data.

Toxicity to Reproduction/Fertility:
Component:
68410-97-9/64742-49-0/64742-89-8:
Reproductive toxicity-
Assessment: Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

STOT – single exposure (VMP Naphtha)
Component:
68410-97-9/64742-49-0/64742-89-8:

Exposure routes:	Target Organs:	Assessment:	Remarks:
Inhalation	Central nervous system	May cause drowsiness or dizziness. The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	

STOT – repeated exposure (VMP Naphtha)
Component:
68410-97-9/64742-49-0/64742-89-8:

Exposure routes:	Target Organs:	Assessment:	Remarks:
	Central nervous system, Peripheral nervous system	The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.	

Repeated dose Toxicity:
Component:
68410-97-9/64742-49-0/64742-89-8:
Species: Rat, male and female
NOAEL: 1402

Application Route: inhalation (vapour)
Test atmosphere: vapour
Exposure time: 13
Number of exposures: 6 hours/day, 5 day
Dose: 322, 1402, 9869 mg/m3
GLP: yes
Target Organs: Kidney
Symptoms: Nasal and ocular discharge

Aspiration toxicity:
Component:
68410-97-9/64742-49-0/64742-89-8:
May be fatal if swallowed and enters airways.

SECTION XII – ECOLOGICAL INFORMATION

Ecological Data for XS-4139-N
Additional Ecotoxicological Remarks:
No data available for this product.

Ecological Data for VMP Naphtha:
Ecotoxicity:
Component:
68410-97-9/64742-49-0/64742-89-8:

Toxicity to fish;	LC50 (Oncorhynchus mykiss (rainbow trout)): 8.2 mg/l Exposure time: 96 h Test Type: semi-static test
Toxicity to daphnia and other aquatic invertebrates:	EC50 (Daphnia magna (Water flea)): 4.5 mg/l Exposure time: 48 h Test Type: Immobilization Analytical monitoring: yes
Toxicity to algae:	EC50 (Pseudokirchneriella subcapitata (green algae)): 3.7 mg/l Exposure time: 96 h Test Type: static test

Ecotoxicology Assessment
Acute aquatic toxicity: Toxic to aquatic life.

Chronic aquatic toxicity: Toxic to aquatic life with long lasting effects.

Persistance and degradability:
Component:
68410-97-9/64742-49-0/64742-89-8:

Biodegradability:	Concentration: 49.2 mg/l Result: Readily biodegradable Biodegradation: 77 % Testing period: 2 d Exposure time: 28 d

Mobility in soil:
Component:
68410-97-9/64742-49-0/64742-89-8:
No data available

Ecological Data for Isopropanol:
Ecotoxicity
Component:
67-63-0:

Toxicity to fish:	LC50: (Pimephales promelas (fathead minnow)):> 1,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates:	LC50: > 100 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
Toxicity to algae:	Remarks: No data available.

Mobility in soil:
Component:
67-63-0:
No data available

SECTION XIII – DISPOSAL CONSIDERATIONS

Waste Disposal Method:
Dispose of in accordance with Federal, State and Local regulations.

SECTION XIV – TRANSPORTATION INFORMATION

Land transport (DOT):

UN Number: 1133
UN Packing Group: II
UN Class: III
DOT Hazard Class: Flammable Liquid

Sea transport (IMDG):

UN Number: 1133
UN Packing Group: II
UN Class: III

Air transport (ICAO/IATA):

UN Number: 1133
UN Packing Group: II
UN Class: III

SECTION XV – REGULATORY INFORMATION

SARA Title III Section 313:

This product contains the following substance(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (40 CFR 372).

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA Title III 312 Hazard Category (40 CFR 311/312):

Acute Health:	Yes	Release of Pressure:	No
Chronic Health:	Yes	Reactive:	No
Fire:	Yes		

US Federal Regulations (TSCA):

This product is listed on the U.S. Toxic Substance Control Act inventory of chemicals or is otherwise compliant with TSCA regulations.

SECTION XVI – OTHER INFORMATION

HMIS Rating:

Health: 2

Flammability: 3
Reactivity: 0
PPE: B

Date of Printing: 11/2/2016

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The information in this document is believed to be correct as of the date issued. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS PRODUCT OR INFORMATION, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. The information and product are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use thereof.