

**SECTION 1 : Identification of the substance/preparation and of the company / undertaking**

- (a) **GHS product identifier**  
Garreco Die Spacer (All Colors)
- (e) **Emergency phone number**  
CHEMTREC 1-800-424-9300
- (b) **Other means of identification**  
NA
- (c) **Recommended use of the chemical and restrictions on use**  
For professional dental applications.
- (d) **Supplier's details**  
Garreco, LLC  
430 Hiram Road  
Heber Springs, AR 72543  
Phone: 1-800-334-1443

**SECTION 2: Hazards identification**

(a) **GHS classification of the substance/mixture**

**Substance Name**

- |                         |                          |
|-------------------------|--------------------------|
| 1. Normal Butyl Acetate | 6. Cellulose Nitrate     |
| 2. Toluene              | 7. Isopropyl Acetate 99% |
| 3. Methyl Ethyl Ketone  | 8. Isopropyl Alcohol 99% |
| 4. Diacetone Alcohol    | 9. n-Heptane             |
| 5. Isobutyl Alcohol     |                          |

(b) **Label Elements**

**Hazard statements**

- Highly flammable liquid and vapor
- May cause respiratory irritation
- May cause drowsiness or dizziness
- Suspected of damaging fertility or the unborn child
- May cause damage to organs through prolonged or repeated exposure
- Causes skin irritation
- Causes serious eye damage
- Very toxic to aquatic life with long lasting effects

**Precautionary statements**

**Prevention**

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Keep container tightly closed. Avoid release to the environment.
- Ground and bond container and receiving equipment.
- Use explosion-proof equipment.
- Use non-sparking tools. Take action to prevent static discharges.
- Use only outdoors or in a well-ventilated area. Do no breath dust/fume/gas/mist/vapor/spray.
- Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
- Wash hands thoroughly after handling.
- Wear eye/face/hand protection.

**Response**

- IF SWALLOWED:** Immediately call a POISON CENTER. Do not induce vomiting.
- IF ON SKIN (or hair):** Take off immediately all contaminated clothing and wash before reuse. Rinse skin with water.
- IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a poison center if you feel unwell.
- IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

**Storage**

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

**Disposal**

Dispose of contents in accordance with local/regional/national/international regulations.

**Hazard Symbol(s)**

- Flame
- Exclamation mark
- Health Hazard
- Corrosion
- Environment

**Signal Word(s)**

Danger

(c) **Other hazards which do not result in classification**

NA

**SECTION 3: Composition/information on ingredients****(a) Chemical(s) Identity:****(b) Common Name:**

1. Normal Butyl Acetate
2. Toluene
3. Methyl Ethyl Ketone
4. Diacetone Alcohol
5. Isobutyl Alcohol
6. Cellulose Nitrate
7. Isopropyl Acetate 99%
8. Isopropyl Alcohol 99%
9. n-Heptane

**(c) CAS No.**

- 123-86-4
- 108-88-3
- 78-93-3
- 123-42-2
- 78-83-1
- 9004-70-0
- 108-21-4
- 67-63-0
- 142-82-5

**Mixture:****Concentration (Percentage)**

- 36%
- 23%
- 12%
- 5%
- 5%
- 5%
- 3%
- 2%
- 1%

**SECTION 4: First-aid measures****(a) Description of first aid measures:**

**IF ON SKIN (or hair):** If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the effected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.

**IF INHALED:** Remove to fresh air. Seek immediate medical attention.

**IF SWALLOWED:** If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**IF IN EYES:** If product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.

**(b) Most important symptoms and effects, both acute and delayed:**

**ON SKIN:** May cause skin irritation and sensitization.

**IN EYES:** Liquid and vapors can cause moderate irritation. Symptoms include tears, blurred vision and redness.

**INHALATION:** High concentration is irritating to the respiratory tract and may cause dizziness, headache and anesthetic effects.

**INGESTION:** Causes irritation, a burning sensation of the mouth, throat, gastrointestinal tract and abdominal pain.

**(c) Indication of any immediate medical attention and special treatment needed:**

**INHALATION:** Dizziness, headache and anesthetic effects.

**INGESTION:** Burning sensation of the mouth, throat, gastrointestinal tract and abdominal pain.

**SECTION 5: Fire-fighting measures****(a) Suitable extinguishing media:**

Chemical foam, carbon dioxide, dry chemical.

**(b) Special hazards arising from the chemical or mixture:**

Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product.

**(c) Special protective equipment and precautions for fire-fighters:**

This product is a flammable liquid. When involved in a fire, this product may ignite and decompose to produce carbon oxides. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a open container. Fight fire from a safe location. Heat may cause pressure to build and rupture closed containers, spreading fire, increasing risk of injuries. Structural firefighters must wear SCBAs and full protective equipment.

**SECTION 6: Accidental release measures**

**(a) Personal precautions, protective equipment and emergency procedures:**

Maximize ventilation and secure all sources of ignition. Wash all affected areas with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse.

**(b) Environmental precautions:**

Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.

**(c) Methods and material for containment and cleaning up:**

Before cleaning any spill or leak, individuals involved must wear appropriate Personal Protective Equipment (e.g., goggles, gloves). Deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g. sand or earth). Use ONLY non-sparking tools for recovery and cleanup.

**SECTION 7: Handling and storage**

**(a) Precautions for safe handling:**

Use local explosion-proof ventilation with a minimum capture velocity of 100 ft/min (30 m/min) at point of material release. Observe precautions found on label. Avoid contact with skin, eyes, clothing, and prolonged contact with the product. After use, wash hands and exposed skin with soap and water. Do not eat, drink or smoke while handling product.

**(b) Conditions for safe storage, including any incompatibilities:**

Store containers in a cool, dry location, away from direct sunlight, heat, sparks, flame, or sources of intense heat. Keep container closed after each use. Ground and bond all containers when transferring.

**SECTION 8: Exposure controls/Personal protection**

**(a) Control parameters:**

Chemical	ACGIH		OSHA	
1. Normal Butyl Acetate	150 ppm TWA	200 ppm STEL	150 ppm TWA	200 ppm STEL
2. Toluene	50 ppm PEL-TWA		100 ppm TLV-TWA	150 ppm STEL
3. Methyl Ethyl Ketone	200 ppm	330 ppm STEL	200 ppm TWA	590 mg/m <sup>3</sup> CEILING
4. Diacetone Alcohol	50 ppm TLV-TWA		50 ppm PEL - TWA	
5. Isobutyl Alcohol	50 ppm TLV-TWA		100 ppm TWA	
6. Cellulose Nitrate	NA		NA	
7. Isopropyl Acetate 99%	400 ppm TWA	500 STEL	400 ppm TWA	500 ppm STEL
8. Isopropyl Alcohol 99%	250 ppm TLV-TWA	310 ppm STEL	250 ppm PEL-TWA	1185 mg/m <sup>3</sup> TOTAL
9. n-Heptane	400 STEL	500ppm	500 ppm PEL-TWA	

**(b) Appropriate Engineering Controls:**

Use only with adequate ventilation. Avoid contact with eyes and skin. Avoid breathing vapor and spray mist. Wash hands after each use. Local exhaust is preferable. General exhaust acceptable if the exposure to materials is maintained below applicable exposure limits. Refer to OSHA standards.

**(c) Individual protection measures:**

A properly fitted, full face respirator effective for particulates, organic solvents, and formaldehyde or an air supplied respirator must be worn, unless air monitoring demonstrates vapor/mist concentrations are below permissible limits. When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust. Thoroughly clean contaminated equipment before reuse.

**SECTION 9: Physical and chemical properties**

(a) Appearance:	Liquid
(b) Odor:	Mild
(c) Odor threshold:	ND
(d) pH:	ND
(e) Melting point / freezing point:	ND
(f) Initial boiling point and boiling range:	ND
(g) Flash point:	ND
(h) Evaporation rate (BuAc=1):	Slower than Ether
(i) Flammability:	Flammable
(j) Upper/lower flammability or explosive limits:	ND
(k) Vapor Pressure:	ND
(l) Vapor density:	ND
(m) Relative density:	ND
(n) Solubility:	ND
(o) Partition coefficient: n-octanol/water:	ND
(p) Auto-ignition temperature:	ND
(q) Decomposition temperature:	ND
(r) Viscosity:	ND

**SECTION 10: Stability and reactivity**

(a) Reactivity:	Low
(b) Chemical stability:	Stable under normal storage conditions
(c) Possibility of hazardous reactions:	Will not occur under normal conditions
(d) Conditions to avoid:	Avoid contact with strong oxidizing agents
(f) Hazardous decomposition products:	ND

**SECTION 11: Toxicological information**

Acute toxicity	NA
Skin corrosion/irritation	May cause skin corrosion / irritation
Serious Eye Damage / Irritation	May cause serious eye damage / irritation
Respiratory or skin sensitization	May cause respiratory or skin sensitization
Germ cell mutagenicity	ND
Carcinogenicity	ND
Reproductive toxicity	ND
STOT-single exposure	ND
STOT-repeated exposure	ND
Aspiration Hazard	Yes

(a) Exposure route: Eyes, lungs. and skin.

**(b) Symptoms related to the physical, chemical and toxicological characteristics:**

Tears, blurred vision, or redness. Skin irritation or skin sensitization. Irritation to the respiratory tract, dizziness, headache, or anesthetic effects. Irritation in mouth, throat/gastrointestinal tract or abdominal pain.

**(c) Delayed and immediate effects and also chronic effects from short and long tem exposure:**

Prolonged or repeated exposure may lead to kidney, lung, liver, or heart damage. None are likely to occur provided exposure is maintained at/below the occupational exposure limit. Unlikely to present a cancer hazard to humans.

(d) Numerical measures of toxicity: ND

**SECTION 12: Ecological information**

(a) Ecotoxicity:	Very toxic to aquatic life with long lasting effects
(b) Persistence and degradability:	ND
(c) Bioaccumulative potential	ND
(d) Mobility in soil:	ND
(e) Other adverse effects:	ND

**SECTION 13: Disposal considerations**

**Product:  
Recommendation**

Avoid release to the environment. Do not dump into sewers, any body of water, or on the ground. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. The company that has issued this SDS has no control over the management practices of parties handling or using this material. The information presented here pertains only to the product as shipped in its intended conditions as described in this SDS.

**SECTION 14: Transport information**

<b>(a) UN Number</b>	1263
<b>(b) UN Proper shipping name</b>	Paint
<b>(c) Transport hazard class(es)</b>	II
<b>(d) Packing Group</b>	3
<b>(e) Environmental hazards</b>	ND
<b>(f) Transport in bulk</b>	ND
<b>(g) Other Information</b>	ND

**SECTION 15: Regulatory information**

<b>SARA Reporting Requirements:</b>	This product contains substances subject to the reporting requirements of § 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.
<b>SARA Threshold Planning Quantity:</b>	ND
<b>TSCA Inventory Status:</b>	This product contains substances subject to the reporting requirements of TSCA 12 (B) if exported from the United States.
<b>Other Federal Requirements:</b>	ND
<b>Other Canadian Regulations:</b>	ND
<b>State Regulatory Information:</b>	<p>The following chemical(s) are listed on the New Jersey Right-To-Know List or qualify for an exemption:</p> <ol style="list-style-type: none"><li>1. Normal Butyl Acetate</li><li>2. Toluene</li><li>3. Methyl Ethyl Ketone</li><li>6. Cellulose Nitrate</li><li>7. Isopropyl Acetate 99%</li><li>9. n-Heptane</li></ol> <p>The following chemical(s) are listed on the Pennsylvania List or qualify for an exemption:</p> <ol style="list-style-type: none"><li>1. Normal Butyl Acetate</li><li>2. Toluene</li><li>3. Methyl Ethyl Ketone</li><li>4. Diacetone Alcohol</li><li>6. Cellulose Nitrate</li><li>7. Isopropyl Acetate 99%</li><li>9. n-Heptane</li></ol> <p>The following chemical(s) are listed on the California Prop 65 List or qualify for an exemption.</p> <ol style="list-style-type: none"><li>2. Toluene</li><li>9. n-Heptane</li></ol>

**SECTION 16: Other information**

**PREPARED BY:** Kristofer Mainar

**GAR QMS SDS REFERENCE:** A048

**HAZARDOUS MATERIAL IDENTIFICATION (HMIS) RATING:**

Health	2
Flammability	3
Reactivity	0
Other	X

**REVISION NUMBER:** 170327

**CHANGES FROM PREVIOUS VERSION:** Replaces A227. Reviewed for accuracy on 3/27/17.

**ABBREVIATIONS**

NA Not Applicable	LD Lethal Dose
ND Not Determined	TC Toxic Concentration
NE Not Established	TD Toxic Dose
ppm parts per million	BOD Biological Oxygen Demand
G Gallon	COD Chemical Oxygen Demand
mg Milligram	Lo Lowest
L Liter	ThOD Theoretical Oxygen Demand
gm Gram	TLm Threshold Limit
mol Mole	IC Inhibitory Concentration
kg Kilogram	DOC Dissolved Organic Carbon
μ Micro	H Hours
mm Millimeter	M Months
p Pico	D Days
Pa Pascals	Y Years
c cento	W Weeks
LC Lethal Concentration	IARC International Agency for Research for Cancer
ACGIH American Conference of Governmental Industrial Hygienist	NOEL No Observed Effect Level
CPR Controlled Product's Regulation	NOAEL No Observed Adverse Effect Level
DSL Canadian Domestic Substances List	OSHA Occupational Safety and Health Administration
NDSL Canadian Non-domestic Substance List	PEL Permissible Exposure Limit
	TLV Threshold Limit Value

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200) OF CHEMICALS AND THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING REVISION 5. ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED.

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