

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2020/878; US OSHA HCS 2015; and Canadian WHMIS 2015.

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Code:** 51-0069-01
Product Name: Ink, Glass Bottle Caustic Wash
X Code: X(A34)0622
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant identified uses: Industrial application: Ink
- 1.3 Details of the Supplier of the Safety Data Sheet:**
- | | | |
|--------------------------|--|----------------------|
| Company Name: | Bestcode | Phone Number: |
| | 3034 SE Loop 820 | 817-349-8555 |
| | Fort Worth, TX 76140 USA | |
| Web site address: | www.bestcode.co | |
| Email : | info@bestcode.co | |
- 1.4 Emergency telephone number:**
- | | | |
|---------------------------|---------------|--------------|
| Emergency Contact: | ChemTel.Inc | 800-255-3924 |
| | International | 813-248-0585 |

Section 2. Hazards Identification

- 2.1 Classification of the Substance or Mixture:**
Flammable Liquids, Category 2
Skin Corrosion/Irritation, Category 3
Serious Eye Damage/Eye Irritation, Category 2
Skin Sensitization, Category 1
Specific Target Organ Toxicity (single exposure), Category 3
- 2.2 Label Elements:**



GHS Signal Word: **Danger**

Hazard-determining components of labelling:

Methyl ethyl ketone

Silane, Diethoxymethyl[3-(oxiranylmethoxy)propyl]-

GHS Hazard Phrases:

EUH066 - Repeated exposure may cause skin dryness or cracking.

H225 - Highly flammable liquid and vapor.

H316 - Causes mild skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

GHS Precautionary Phrases:

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.

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 - Wash hands thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P235 - Keep cool.

GHS Response Phrases:

P302+352 - IF ON SKIN: Wash with plenty of soap and water.

P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P321 - Specific treatment see ... on this label.

P332+313 - If skin irritation occurs, get medical advice/attention.

P333+313 - If skin irritation or rash occurs, seek medical advice/attention.

P337+313 - If eye irritation persists, get medical advice/attention.

P362+364 - Take off contaminated clothing and wash it before reuse.

P370+378 - In case of fire, use appropriate media to extinguish.

GHS Storage and Disposal Phrases:

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

P405 - Store locked up.

P501 - Dispose of contents/container to ...

UFI:

2.3 Adverse Human Health Hazards not otherwise classified (HNOC) or not covered by GHS. Hazards not otherwise Effects and Symptoms: classified (HNOC) or not covered by GHS -none. Chronic: None. ROUTE OF EXPOSURE:

Multiple Routes: Harmful if swallowed, inhaled, or absorbed through skin.

2.3.1 Inhalation: No hazard expected in normal industrial use.

2.3.2 Skin Contact: Non-irritating to the skin.

2.3.3 Eye Contact: Non-irritating to the eyes.

2.3.4 Ingestion: No hazard expected in normal industrial use.

Section 3. Composition/Information on Ingredients

| CAS # | Hazardous Components (Chemical Name)/ REACH Registration No. | Concentration | EC No./ EC Index No. | GHS Classification |
|-----------|---|-----------------|---------------------------|--|
| 78-93-3 | Methyl ethyl ketone 01-2119457290-43-xxxx | 56.2 -72.8 % | 201-159-0 606-002-00-3 | Flam. Liq. 2: H225 Eye Damage 2: H319 STOT (SE) 3: H336 EUH066 |
| 64-17-5 | Ethyl alcohol 01-2119457610-43 | 4.765 -14.295 % | 200-578-6 603-002-00-5 | Flam. Liq. 2: H225 |
| 7732-18-5 | Water na | 1.0 -5.0 % | 231-791-2 NA | No GHS classifications apply. |
| 2897-60-1 | Silane, Diethoxymethyl[3-(oxiranylethoxy)propyl]- 01-2120120420-79 | 0.25 -0.99 % | 220-780-8 NA | Skin Corr. 2: H315 Skin Sens. 1: H317 Eye Damage 2: H319 STOT (SE) 3: H335 Mutagen 2: H341 |
| 108-94-1 | Cyclohexanone | 0.099 -0.5 % | 203-631-1 | Flam. Liq. 3: H226 |

| | | | |
|------------------|--------------------------|--------------|-------------------------------------|
| 01-2119453616-35 | | 606-010-00-7 | Acute Tox.(I) 4: H332 |
| 8047-99-2 | Toluene ethylsulfonamide | 0.5 -2.0 % | 232-465-2 |
| 01-2120791115-55 | | | No GHS classifications apply. NA |

Section 4. First Aid Measures

- 4.1 Description of First Aid Measures:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
- In Case of Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If inhaled, remove to fresh air. If breathing is difficult, give oxygen.
- In Case of Skin Contact:** Wash off with soap and plenty of water. Consult a physician. No specific treatment is necessary, since this material is not likely to be hazardous.
- In Case of Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. No specific treatment is necessary, since this material is not likely to be hazardous. Assure adequate flushing of the eyes by separating the eyelids with fingers.
- In Case of Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. No specific treatment is necessary, since this material is expected to be non-hazardous. If swallowed, wash out mouth with water provided person is conscious. Call a physician.
- 4.2 Important Symptoms and Effects, Both Acute and Delayed:** The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.
- Note for the Doctor:** Treat symptomatically and supportively.
- 4.3 Indication of any immediate medical attention and special treatment needed:** No data available.

Section 5. Fire Fighting Measures

- 5.1 Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. Not available. Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.
- 5.2 Flammable Properties and Hazards:** Carbon oxides, Flash back possible over considerable distance. Container explosion may occur under fire conditions.
No data available.
- Flash Pt:** > -7.00 C Method Used: Estimate
- Explosive Limits:** LEL: No data. UEL: No data.
- Autoignition Pt:** > 365.00 C
- 5.3 Fire Fighting Instructions:** Wear self contained breathing apparatus for fire fighting if necessary. Further information. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Material will not burn. Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions.

Section 6. Accidental Release Measures

- 6.1 Protective Precautions,** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.
- 6.2 Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
- 6.3 Methods and Material For Containment and Cleaning Up:** Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL. Evacuate area. PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.
Methods for cleaning up.
Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal.

Section 7. Handling and Storage

- 7.1 Precautions To Be Taken in Handling:** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2. No special handling procedures are required. User Exposure: Do not breathe vapor. Do not get in eyes, on skin, on clothing.
- 7.2 Precautions To Be Taken in Storing:** Store under inert gas. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Hygroscopic.
Storage class 510) Recommended storage temperature: 2 -8 - 8 deg.C.
Handle and store under inert gas. No special storage requirements. Suitable: Keep tightly closed. Store in a cool, dry place.
- Other Precautions:** Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

| CAS # | Chemical Name | Jurisdiction | Recommended Exposure Limits | Notations |
|---------|---------------------|----------------------|---|-----------|
| 78-93-3 | Methyl ethyl ketone | ACGIH TLV | TLV: 200 ppm STEL: 300 ppm | |
| | | Australia | TWA: 295 mg/m3 (100 ppm) STEL: 590 mg/m3 (200 ppm) | |
| | | Austria | TWA: 445 mg/m3 (150 ppm) STEL: 890 mg/m3 (300 ppm) | |
| | | Belgium OEL | TWA: 600 mg/m3 (200 ppm) STEL: 900 mg/m3 (300 ppm) | |
| | | California, USA PELs | TWA: 590 mg/m3 (200 ppm) STEL: 885 mg/m3 (300 ppm) | |
| | | Ontario, CA | TWA: 200 ppm STEL: 300 ppm | |
| | | China | TWA: 300 mg/m3 STEL: 600 mg/m3 (15 min) | |
| | | Québec, CA | TWA: 150 mg/m3 (50 ppm) | |

78-93-3 Methyl ethyl ketone
(continued)

| | | |
|-----------------------------------|---|-----------------|
| German AGS (Ausschuss für Gefa | STEL: 300 mg/m3 (100 ppm) TWA: 600 mg/m3 (200 ppm) STEL: 600 mg/m3 (200 ppm) (15 min) | |
| Germany MAK/TRK | TWA: 295 mg/m3 (100 ppm) STEL: 600 mg/m3 (200 ppm) (30min) (4x) | Skin Absorption |
| Denmark OEL | TWA: 145 mg/m3 (50 ppm) STEL: 290 mg/m3 (100 ppm) | |
| Spain OEL | TWA: 600 mg/m3 (200 ppm) STEL: 900 mg/m3 (300 ppm) | |
| Europe | TWA: 600 mg/m3 (200 ppm) STEL: 900 mg/m3 (300 ppm) | |
| Finland OEL | STEL: 300 mg/m3 (100 ppm) (15 min) | |
| France VL | TWA: 600 mg/m3 (200 ppm) STEL: 900 mg/m3 (300 ppm) | |
| Hungary OEL | TWA: 600 mg/m3 STEL: 900 mg/m3 | |
| Ireland OEL | TWA: 600 mg/m3 (200 ppm) STEL: 900 mg/m3 (300 ppm) (15 min) | |
| Italy OEL | TWA: 600 mg/m3 (200 ppm) STEL: 900 mg/m3 (300 ppm) | |
| South Korea | TWA: 590 mg/m3 (200 ppm) STEL: 885 mg/m3 (300 ppm) | |
| Latvia OEL | TWA: 200 mg/m3 (67 ppm) STEL: 900 mg/m3 (300 ppm) (15 min) | |
| Mexico OEL | TWA: 590 mg/m3 (200 ppm) STEL: 885 mg/m3 (300 ppm) | |
| Malaysia OEL | TWA: 590 mg/m3 (200 ppm) | |
| NIOSH | TWA: 200 ppm STEL: 300 ppm | |
| Netherlands OEL | TWA: 590 mg/m3 STEL: 900 mg/m3 | |
| New Zealand | TWA: 445 mg/m3 (150 ppm) STEL: 890 mg/m3 (300 ppm) | |
| OSHA PELs | PEL: 200 ppm | |
| Poland | TWA: 450 mg/m3 STEL: 900 mg/m3 | |
| Sweden OEL | TWA: 150 mg/m3 (50 ppm) STEL: 300 mg/m3 (100 ppm) (15 min) | |
| Singapore | TWA: 590 mg/m3 (200 ppm) STEL: 885 mg/m3 (300 ppm) | |
| Britain EH40 | TWA: 600 mg/m3 (200 ppm) STEL: 899 mg/m3 (300 ppm) | Skin Absorption |

64-17-5 Ethyl alcohol

| | | |
|-----------------------------------|--|--|
| ACGIH TLV | TLV: 1000 ppm STEL: 1000 ppm | |
| Australia | TWA: 1900 mg/m3 (1000 ppm) STEL: 3800 mg/m3 (2000 ppm) | |
| Austria | TWA: 1880 mg/m3 (1000 ppm) STEL: () | |
| Belgium OEL | TWA: 1907 mg/m3 (1000 ppm) | |
| California, USA PELs | TWA: 1900 mg/m3 (1000 ppm) | |
| Ontario, CA | STEL: 1000 ppm | |
| Québec, CA | TWA: 1880 mg/m3 (1000 ppm) | |
| German AGS (Ausschuss für Gefa | TWA: 960 mg/m3 (500 ppm) STEL: 1920 mg/m3 (1000 ppm) (15 min) | |

64-17-5 Ethyl alcohol
(continued)

| | | |
|-----------------|--|--|
| Germany MAK/TRK | TWA: 1900 mg/m3 (1000 ppm) STEL: 3800 mg/m3 (2000 ppm) (60min) (3x) TWA: 960 mg/m3 (500 ppm) | |
| Denmark OEL | TWA: 1900 mg/m3 (1000 ppm) STEL: 3800 mg/m3 (2000 ppm) | |
| Spain OEL | STEL: 1910 mg/m3 (1000 ppm) | |
| Finland OEL | TWA: 1900 mg/m3 (1000 ppm) STEL: 2500 mg/m3 (1300 ppm) (15 min) | |
| France VL | TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm) | |
| Hungary OEL | TWA: 1900 mg/m3 STEL: 7600 mg/m3 | |
| Ireland OEL | STEL: 1000 ppm (15 min) | |
| South Korea | TWA: 1900 mg/m3 (1000 ppm) | |
| Latvia OEL | TWA: 1000 mg/m3 | |
| Mexico OEL | TWA: 1900 mg/m3 (1000 ppm) STEL: () | |
| Malaysia OEL | TWA: 1880 mg/m3 (1000 ppm) | |
| NIOSH | TWA: 1900 mg/m3 (1000 ppm) | |
| Netherlands OEL | TWA: 260 mg/m3 STEL: 1900 mg/m3 | |
| New Zealand | TWA: 1880 mg/m3 (1000 ppm) | |
| OSHA PELs | PEL: 1000 ppm | |
| Poland | TWA: 1900 mg/m3 | |
| Sweden OEL | TWA: 1000 mg/m3 (500 ppm) STEL: 1900 mg/m3 (1000 ppm) (15 min) | |
| Singapore | TWA: 1880 mg/m3 (1000 ppm) | |
| Britain EH40 | TWA: 1920 mg/m3 (1000 ppm) STEL: () | |

108-94-1 Cyclohexanone

| | | |
|-----------------------------------|---|-----------------|
| ACGIH TLV | TLV: 20 ppm STEL: 50 ppm | |
| Australia | TWA: 20 mg/m3 (5 ppm) STEL: 80 mg/m3 (20 ppm) | |
| Austria | TWA: 100 mg/m3 (25 ppm) STEL: () | Skin Absorption |
| Belgium OEL | TWA: 40.8 mg/m3 (10 ppm) STEL: 81.6 mg/m3 (20 ppm) | |
| California, USA PELs | TWA: 100 mg/m3 (25 ppm) | Skin Absorption |
| Ontario, CA | TWA: 20 ppm STEL: 50 ppm | |
| Switzerland OEL | TWA: 100 mg/m3 (25 ppm) STEL: 200 mg/m3 (50 ppm) | |
| China | TWA: 50 mg/m3 | |
| Québec, CA | TWA: 100 mg/m3 (25 ppm) | |
| German AGS (Ausschuss für Gefa | TWA: 80 mg/m3 (20 ppm) STEL: 80 mg/m3 (20 ppm) (15 min) | |
| Germany MAK/TRK | TWA: 20 mg/m3 (5 ppm) STEL: 80 mg/m3 (20 ppm) (15min) (4x) | Skin Absorption |
| Denmark OEL | TWA: 40 mg/m3 (10 ppm) STEL: 80 mg/m3 (20 ppm) | |
| Spain OEL | TWA: 41 mg/m3 (10 ppm) STEL: 82 mg/m3 (20 ppm) | |
| Europe | TWA: 40.8 mg/m3 (10 ppm) STEL: 81.6 mg/m3 (20 ppm) | Skin Absorption |

108-94-1 Cyclohexanone
(continued)

| | | |
|-----------------|--|-----------------|
| Finland OEL | TWA: 41 mg/m ³ (10 ppm) STEL: 82 mg/m ³ (20 ppm) (15 min) | |
| Hungary OEL | TWA: 40.8 mg/m ³ STEL: 81.6 mg/m ³ | |
| Ireland OEL | TWA: 40.8 mg/m ³ (10 ppm) STEL: 81.6 mg/m ³ (20 ppm) (15 min) | |
| Italy OEL | TWA: 40.8 mg/m ³ (10 ppm) STEL: 81.6 mg/m ³ (20 ppm) | Skin Absorption |
| Japan OEL | TWA: 20 ppm | |
| South Korea | TWA: 100 mg/m ³ (25 ppm) STEL: 200 mg/m ³ (50 ppm) | |
| Latvia OEL | TWA: 40.8 mg/m ³ (10 ppm) STEL: 81.6 mg/m ³ (20 ppm) (15 min) | |
| Mexico OEL | TWA: 200 mg/m ³ (50 ppm) STEL: 400 mg/m ³ (100 ppm) | Skin Absorption |
| Malaysia OEL | TWA: 100 mg/m ³ (25 ppm) | Skin Absorption |
| NIOSH | TWA: 100 mg/m ³ (25 ppm) | Skin Absorption |
| Netherlands OEL | STEL: 50 mg/m ³ | |
| New Zealand | TWA: 100 mg/m ³ (25 ppm) | |
| OSHA PELs | PEL: 50 ppm | |
| Poland | TWA: 40 mg/m ³ STEL: 80 mg/m ³ | |
| Sweden OEL | TWA: 41 mg/m ³ (10 ppm) STEL: 81 mg/m ³ (20 ppm) (15 min) | |
| Singapore | TWA: 100 mg/m ³ (25 ppm) | |
| Britain EH40 | TWA: 41 mg/m ³ (10 ppm) STEL: 82 mg/m ³ (20 ppm) | Skin Absorption |

8.2 Exposure Controls:

8.2.1 Engineering Controls (Ventilation etc.): Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. There are no special ventilation requirements. Use only in a chemical fume hood. Safety shower and eye bath.

8.2.2 Personal protection equipment:

Eye Protection: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Eye protection is not normally required.

Protective Gloves: Handle with gloves. 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. Wash and dry hands. Splash contact:
Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 292 min. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario. Full contact.
Material: Nitrile rubber, Minimum layer thickness: 0.4 mm, Break through time: 480 min. Protective garments not normally required.

Other Protective Clothing: Impervious clothing. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Protective garments not normally required.

Respiratory Equipment Where risk assessment shows air-purifying respirators are appropriate

use a full-face

(Specify Type):

respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.

If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respirator protection is not normally required. Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

Work/Hygienic/Maintenance Practices:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Wash thoroughly after handling. Wash contaminated clothing before reuse. Discard contaminated shoes.

8.2.3 Environmental

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Exposure Controls:

Exposure Scenarios: No data available.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Appearance: Black.
Odor: solvent odor.

pH: No data.

Melting Point: -86.99 C - 0.00 C

Boiling Point: 78.00 C - 68.8 C (155.78 F)

Flash Pt: > -7.00 C Method Used: Estimate

Evaporation Rate: No data.

Saturated Vapor Concentration: No data.

Flammability (solid, gas): No data available.

Explosive Limits: LEL: No data. UEL: No data.

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): > Air

Specific Gravity (Water = 1): ~ 0.883

Density: ~ 0.8820 G/ML (~ 7.36 - LB/GA)

Solubility in Water: Miscible

Octanol/Water Partition Coefficient: No data.

Autoignition Pt: > 365.00 C

Decomposition Temperature: No data.

Viscosity: No data.

Explosive Properties: No data available.

Oxidizing Properties: No data available.

9.2 Other Information

9.2.1 Information with regard to physical hazard classes

Information with regard to primary physical hazard:

9.2.2 Other safety characteristics

Percent Volatile: > 65.0 %

Section 10. Stability and Reactivity

- 10.1 Reactivity:** No data available.
- 10.2 Stability:** Unstable [] Stable [X]
- 10.3 Conditions To Avoid - Hazardous Reactions:** Vapors may form explosive mixture with air. No data available.
- Possibility of Hazardous Reactions:** Will occur [] Will not occur [X]
- 10.4 Conditions To Avoid - Instability:** Exposure to moisture. Heat, flames and sparks. Extremes of temperature and direct sunlight.
- 10.5 Incompatibility - Materials To Avoid:** Oxidizing agents, Strong reducing agents, Strong oxidizing agents. Acid anhydrides, Aluminum, Halogenated compounds, Acids. None. Strong oxidizing agents, Bases.
- 10.6 Hazardous Decomposition or Byproducts:** No data available. In the event of fire: see section 5. Other decomposition products: None. Carbon monoxide.

Section 11. Toxicological Information

- 11.1 Information on Toxicological Effects:** Acute toxicity.
- Germ cell mutagenicity. No data available.
- Reproductive toxicity. Aspiration hazard: Inhalation: Dermal. Epidemiology: Teratogenicity: No data available.
- Reproductive Effects: Mutagenicity: Neurotoxicity: Other Studies: CAS# 78-93-3:
- Acute toxicity, LD50, Intraperitoneal, Mouse, 616.0 MG/KG.
- Result:
- Lungs, Thorax, or Respiration: Sputum.
- Biochemical: Metabolism (Intermediary): Other proteins.
- Biochemical: Metabolism (intermediary): Effect on inflammation or mediation of inflammation.
- Shell Chemical Company. Unpublished Report., Vol/p/yr: -,6, 1961
- Acute toxicity, LD50, Skin, Species: Rabbit, 6480. MG/KG.
- Result:
- Lungs, Thorax, or Respiration: Other changes.
- Biochemical: Metabolism (intermediary): Effect on inflammation or mediation of inflammation.
- Shell Chemical Company., Vol/p/yr: MSDS-5390-,
- Acute toxicity, LC50, Inhalation, Mouse, 32.00 MG/M3.
- Result:
- Brain and Coverings: Other degenerative changes.
- Biochemical: Metabolism (intermediary): Effect on inflammation or mediation of inflammation.
- Acute toxicity, LD50, Intraperitoneal, Species: Guinea pig, 2.000 GM/KG.
- Result:

Immunological Including Allergic: Increase in humoral immune response.

Irritation or Corrosion: Skin corrosion/irritation.

Result: Tumorigenic:Tumors at site or application. No skin irritation . (OECD Test Guideline 404) Serious eye damage/eye irritation Eyes -Rabbit)

Irritating to eyes . No data available. Serious eye damage/eye irritation no data available. Provide adequate ventilation.

Mild eye irritation Serious eye damage/eye irritation Eyes -rabbit. Serious eye damage/eye irritation: Eyes - rabbit -

Sensitization: No data available.

Chronic Toxicological Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.

Effects: Specific target organ toxicity -repeated exposure: no data available. Specific target organ toxicity -single exposure (Globally Harmonized System) No data available.

Inhalation. Oral. Specific target organ toxicity - repeated exposure:

Carcinogenicity/Other 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.

Information:

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. This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: 3 -Group 3: Not classifiable as to its carcinogenicity to humans. CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

| CAS # | Hazardous Components (Chemical Name) | NTP | IARC | ACGIH | OSHA |
|-----------|--|------|------|-------|------|
| 78-93-3 | Methyl ethyl ketone | n.a. | n.a. | n.a. | n.a. |
| 64-17-5 | Ethyl alcohol | n.a. | 1 | A4 | n.a. |
| 7732-18-5 | Water | n.a. | n.a. | n.a. | n.a. |
| 2897-60-1 | Silane, Diethoxymethyl[3-(oxiranylmethoxy)propyl]- | n.a. | n.a. | n.a. | n.a. |
| 108-94-1 | Cyclohexanone | n.a. | 3 | A3 | n.a. |
| 8047-99-2 | Toluene ethylsulfonamide | n.a. | n.a. | n.a. | n.a. |

Section 12. Ecological Information

- 12.1 Toxicity:** No data available.
- 12.2 Persistence and Degradability:** No data available.
- 12.3 Bioaccumulative Potential:** No data available.
- 12.4 Mobility in Soil:** No data available.
- 12.5 Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
- 12.6 Other adverse effects:** No data available.

Section 13. Disposal Considerations

13.1 Waste Disposal Method:

Product.

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed. APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Section 14. Transport Information

GHS Classification:

Flammable Liquids, Category 2 - Danger! Highly flammable liquid and vapor
Skin Corrosion/Irritation, Category 3 - Warning! Causes mild skin irritation
Serious Eye Damage/Eye Irritation, Category 2 - Warning! Causes serious eye irritation
Skin Sensitization, Category 1 - Warning! May cause an allergic skin reaction
Specific Target Organ Toxicity (single exposure), Category 3 - Warning! May cause respiratory irritation, or may cause drowsiness and dizziness

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]

DOT Hazard Class: 3 FLAMMABLE LIQUID

UN/NA Number: UN1210 **Packing Group:** II



14.1 LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]

UN Number: UN1210 **Packing Group:** II

Hazard Class: 3 - FLAMMABLE LIQUID **TDG Classification:**

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]

UN Number: UN1210 **Packing Group:** II

Hazard Class: 3 - FLAMMABLE LIQUID

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]
UN Number: UN1210 **Packing Group:** II
Hazard Class: 3 - FLAMMABLE LIQUID

Section 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

| CAS # | Hazardous Components (Chemical Name) | S. 302 (EHS) | S. 304 RQ | S. 313 (TRI) |
|-----------|---|--------------|-----------|--------------|
| 78-93-3 | Methyl ethyl ketone | No | Yes NA | No |
| 64-17-5 | Ethyl alcohol | No | No | No |
| 7732-18-5 | Water | No | No | No |
| 2897-60-1 | Silane, Diethoxymethyl[3-(oxiranylmethoxy)propyl]- | No | No | No |
| 108-94-1 | Cyclohexanone | No | Yes NA | No |
| 8047-99-2 | Toluene ethylsulfonamide | No | No | No |

| CAS # | Hazardous Components (Chemical Name) | Canadian NPRI | Canadian Toxic | Canadian DSL |
|-----------|---|---------------|----------------|-----------------|
| 78-93-3 | Methyl ethyl ketone | Yes: Part 5 | No | Yes |
| 64-17-5 | Ethyl alcohol | Yes: Part 5 | | Yes |
| 7732-18-5 | Water | No | No | Yes |
| 2897-60-1 | Silane, Diethoxymethyl[3-(oxiranylmethoxy)propyl]- | No | No | Yes - N: Part 1 |
| 108-94-1 | Cyclohexanone | No | No | Yes |
| 8047-99-2 | Toluene ethylsulfonamide | No | No | Yes |

California Proposition 65



WARNING

This product can expose you to chemicals including .alpha.-Methyl styrene and Formaldehyde, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

| CAS # | Hazardous Components (Chemical Name) | Other US EPA or State Lists |
|-----------|---|--|
| 78-93-3 | Methyl ethyl ketone | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC: Cat. IIa, Title 8 |
| 64-17-5 | Ethyl alcohol | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8 |
| 7732-18-5 | Water | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No |
| 2897-60-1 | Silane, Diethoxymethyl[3-(oxiranylmethoxy)propyl]- | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8A; CA PROP.65: No; CA TAC, Title 8: No |
| 108-94-1 | Cyclohexanone | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8 |
| 8047-99-2 | Toluene ethylsulfonamide | CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No; CA TAC, Title 8: No |

| CAS # | Hazardous Components (Chemical Name) | International Regulatory Lists |
|---------|--------------------------------------|---|
| 78-93-3 | Methyl ethyl ketone | Mexico INSQ: Yes - 1193; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 2-542; Japan ISHL: No; Korea ECL: Yes - KE-24094; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: Yes - 150: WGK 1; Switzerland |

| | | |
|-----------|---|--|
| 64-17-5 | Ethyl alcohol | Giftliste 1: Yes - G-2429; Switzerland INNS: No; REACH: Yes - 01-2119457290-43: Full, (P); Kyoto GHG: No; Rotterdam: No; Stockholm: No Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 5-153; Japan ISHL: No; Korea ECL: Yes - KE-13217; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: Yes - Cat.; Germany WHCS: Yes - 96: WGK 1; Switzerland Giftliste 1: Yes - G-1158; Switzerland INNS: No; REACH: Yes - 01-2119457610-43: Full, (P); Kyoto GHG: No; Rotterdam: No; Stockholm: No |
| 7732-18-5 | Water | Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 7-1663; Japan ISHL: 2-(4)-1220; Korea ECL: Yes - KE-35400; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: No; Switzerland Giftliste 1: No; Switzerland INNS: No; REACH: Yes - 01-2120888954-31: Full, (P); Kyoto GHG: No; Rotterdam: No; Stockholm: No |
| 2897-60-1 | Silane, Diethoxymethyl[3-(oxiranylmethoxy)propyl]- | Mexico INSQ: No; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 2-2072; Japan ISHL: No; Korea ECL: KE-14-0113; Philippines ICCS: No; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: No; Switzerland Giftliste 1: No; Switzerland INNS: No; REACH: Yes - 01-2120120420-79: Full, (P); Kyoto GHG: No; Rotterdam: No; Stockholm: No |
| 108-94-1 | Cyclohexanone | Mexico INSQ: Yes - 1915; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 3-2376; Japan ISHL: No; Korea ECL: Yes - KE-09188; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: Yes - 64: WGK 1; Switzerland Giftliste 1: Yes - G-1458; Switzerland INNS: No; REACH: Yes - 01-2119453616-35: Full, (P); Kyoto GHG: No; Rotterdam: No; Stockholm: No |
| 8047-99-2 | Toluene ethylsulfonamide | Mexico INSQ: No; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 3-1929; Japan ISHL: No; Korea ECL: Yes - KE-14073; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: No; Switzerland Giftliste 1: No; Switzerland INNS: No; REACH: Yes - 01-2120791115-55: Full, (P); Kyoto GHG: No; Rotterdam: No; Stockholm: No |

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Section 16. Other Information

Revision Date: 11-19-2024

Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their purposes. In no event shall BestCode be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if BestCode has been advised of the possibility of such damages.