SAFETY DATA SHEET: SALICYLALDEHYDE

1. IDENTIFICATION
Product Name: SALICYLALDEHYDE
Synonyms: 2-Hydroxybenzaldehyde; Salicylal; 2-Formylphenol; Salicylic aldehyde
Formula and Formula Weight: 2-HOC6H4CHO 122.12
Integra numbers beginning with: S082.10
Recommended Use: Commercial/industrial use
Restrictions on Use: No information available

INTEGRA Chemical Company
24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)
1216 6th Ave N
Kent WA 98032
Phone: 253-479-7000

2. HAZARDS IDENTIFICATION

OSHA Classification:
Acute Toxicity - Oral 4 Harmful if swallowed.
Acute Toxicity - Dermal 3 Toxic in contact with skin.
Skin Corrosion/Irritation 2 Causes skin irritation.
Eye Damage/Irritation 2A Causes serious eye irritation.
Germ Cell Mutagenicity 2 Suspected of causing genetic defects.
Flammable Liquids 4 Combustible liquid.

Signal Word: DANGER

Precautionary Statements
Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from flames and hot surfaces. – No smoking.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves, protective clothing, eye protection, face protection.

Response
Rinse mouth. If swallowed: Call a poison center, doctor if you feel unwell.
If on skin: Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If exposed or concerned: Get medical advice, attention.
Specific treatment (see first aid section on this label)
Take off immediately all contaminated clothing and wash it before reuse.
In case of fire: Use carbon dioxide, dry chemical, or alcohol foam to extinguish.

Storage
Store locked up in a well ventilated place. Keep cool.

Disposal
Dispose of contents, container in accordance with all governmental regulations.
Hazardous Not Otherwise Classified: No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Synonyms</th>
<th>CAS #</th>
<th>% Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salicylaldehyde</td>
<td>2-Hydroxybenzaldehyde; Salicylal; 2-Formylphenol; Salicylic aldehyde</td>
<td>00090-02-8</td>
<td>100</td>
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</tbody>
</table>

4. FIRST AID MEASURES

Inhalation: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult administer oxygen. Seek medical attention.

Eye Contact: Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek immediate medical attention.

Skin Contact: Wash with soap and water. Seek medical attention if irritation develops.

Ingestion: Rinse mouth and give victim large quantities of water. Never give anything by mouth to an unconscious person. Seek medical attention.
5. FIRE-FIGHTING MEASURES

Extinguishing Media: Carbon dioxide, dry chemical, alcohol foam.
Special Equipment and Precautions: Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.
Specific Hazards: Above the flash point, flammable or explosive vapor-air mixtures may be formed.
Hazardous combustion products: Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Remove all potential ignition sources. Prevent spread of spill. Wear full protective equipment including suitable respiratory protection. Absorb with sand or inert material. Place into suitable container for disposal.

7. HANDLING AND STORAGE

Incompatible Materials: Incompatible with strong acids and strong oxidizers. Water, reducing agents, halogens
Storage and Handling: Store locked up in a cool, dry, well-ventilated flammable solids storage area or cabinet away from incompatible materials. Keep containers tightly closed and protect them from physical damage.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from flames and hot surfaces. – No smoking.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves, protective clothing, eye protection, face protection.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OSHA & ACGIH Exposure Limits:
Salicylaldehyde None identified
Engineering Controls: Use adequate general or local exhaust ventilation to keep fume and/or dust levels as low as possible.
Respiratory Protection: None required where adequate ventilation conditions exist. If airborne concentrations are high a NIOSH approved chemical cartridge respirator with an organic vapor cartridge is recommended.
Skin/Eye Protective Equipment: Safety goggles, protective clothing and gloves appropriate for the risk of exposure.
Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers.
Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, oily liquid
Odor: Bitter almond odor
Odor Threshold: Not available
pH: Not available
Melting/Freezing Point: -7 °C
Initial Boiling Point and Boiling Range: 196 °C
Flash Point: 77 °C
Evaporation Rate: Not available
Flammability: Not available
Flammable or Explosive
   Limits (% by volume in air)
   Upper: Not available
   Lower: Not available
Vapor Pressure: 1 mm Hg @33°C
Vapor Density: 4.2
Relative Density: 1.17 Water=1
Solubility: Slightly soluble in water
Partition Coefficient: n-octanol/water 1.24
Auto-Ignition Temperature: Not available
Decomposition Temperature: Not available
Viscosity: Not available

10. STABILITY AND REACTIVITY

Reactivity: No information available
Stability: Stable
Possibility of Hazardous Reactions: Hazardous polymerization will not occur
Conditions to Avoid: Heat, sparks and open flame.
Incompatibles: Incompatible with strong acids and strong oxidizers. Water, reducing agents, halogens
Decomposition Products: Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Effects of Over Exposure:
Inhalation: Harmful if inhaled. Irritating to the nose and throat and respiratory system. Overexposure may cause coughing, difficulty in
breathing and chest pains.

Skin Contact: Contact with skin may be irritating. Material may be absorbed through the skin in harmful amounts.

Eye Contact: May irritate or burn the eyes.

Ingestion: No information available

Chronic Effects: No information available

Target Organs: No information available

Additional Effects: No information available

Reproductive Effects: No information available

Carcinogenicity: None identified

Toxicity Data:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Aquatic Toxicity Data</th>
<th>Terrestrial Toxicity Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salicylaldehyde</td>
<td>LD50 (oral, rat) 520 mg/kg</td>
<td>No information available</td>
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12. ECOLOGICAL INFORMATION

Aquatic Toxicity Data: No information available

Terrestrial Toxicity Data: No information available

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility in soil: No information available

Other adverse effects: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

14. TRANSPORTATION INFORMATION

This product is not a regulated material for domestic ground transportation.

Environmental hazards: No information available

Special precautions: No information available

Bulk transport: No information available

15. REGULATORY INFORMATION

Salicylaldehyde is listed in the TSCA inventory.

16. OTHER INFORMATION

OSHA SDS #: 26285 rev 101 3.27.2015

NE = Not established, NA = Not applicable or Not available

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***** END OF SDS *****