

**Section 1. Identification of the substance/mixture and of the company/undertaking**

**Product Name:** CS-AA Adhesive Activator  
**Supplier:** CSNRI | 621 Lockhaven Drive. Houston, TX 77073 | +1 281.590.8491  
**Emergency Phone Number:** 800.424.9300 (CHEMTREC)  
 +1 703.741.5970 (Outside the US)  
**Product Description:** Resin activator  
**Product Use:** For industrial purposes only.  
**Chemical Name or Synonym:** CS-PAA-003-2

**Section 2. Hazards identification**
**Classification of the substance or mixture**

Skin Sensitization – Category 1

Eye irritation – Category 2

**Label Elements:**

**Signal word:** Warning

**Hazard statements:**

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation

**Precautionary statement:**

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

P273 - Avoid release to the environment

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

P302+P352 - IF ON SKIN: Wash with plenty of water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P403+P235 - Store in a well-ventilated place. Keep cool.

P410 - Protect from sunlight.

P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

**Other information:** None known

**Section 3. Composition/ Information on Ingredients**
**Substances:**

Component	CAS #	Weight %
Benzyl 3-isobutyryloxy-1-isopropyl-2,2-dimethylpropyl Phthalate	16883-83-3	20 – 40
Dibutyl Maleate	105-76-0	20 – 40
Dibenzoyl Peroxide	94-36-0	2.5 – 10



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Isodecyl Benzoate	131298-44-7	2.5 – 10
Oxirane, Methyl-, Polymer with Oxirane, Monobutyl Ether	9038-95-3	1 – 2.5

#### Section 4. First Aid Measures

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

**Skin Contact:** Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

**Ingestion:** If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Rinse mouth. Get medical attention if symptoms occur.

**Most important symptoms/effects, both acute and delayed:** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

**Indication of immediate medical attention and special treatment needed, if necessary:** Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

#### Section 5. Fire Fighting Measures

**Suitable extinguishing media:** Water fog. Foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical powder.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Special hazards arising from the substance or mixture:** During fire, gases hazardous to health may be formed.

**Special protective actions for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**General fire hazards:** No unusual fire or explosion hazards noted.

#### Section 6. Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

**Methods and materials for containment and cleaning up:** Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination


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**Section 7. Handling and Storage**

**Precautions for safe handling:** Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**Conditions for safe storage including any incompatibilities:** Keep container tightly closed in a cool, well ventilated place. Store in a dry place. Keep away from heat sources and direct sunlight. Store away from oxidizing agents.

**Section 8. Exposure Controls / Personal Protection**
**Exposure Guidelines:**

Component	OSHA	ACGIH	NIOSH
Dibenzoyl Peroxide	PEL - 5 mg/m <sup>3</sup>	TWA - 5 mg/m <sup>3</sup>	TWA - 5 mg/m <sup>3</sup>

**Appropriate engineering controls:** Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

**Personal protective equipment**

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

**Respiratory Protection:** Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

**Eye / Face Protection:** Wear tightly sealed goggles. Safety glasses with side shields. Use full face shield over protective eye wear when there is a risk of a splash.

**Skin Protection:** Wear chemical resistant impervious gloves and suitable protective clothing.

**Environmental exposure controls:** Do not allow material to contaminate ground water system.

**Section 9. Physical and Chemical Properties**

<b>Appearance (color):</b>	Liquid, blue
<b>Odour:</b>	Mild
<b>Odour threshold:</b>	No data available
<b>pH:</b>	No data available
<b>Melting point/freezing point:</b>	217.4 °F (103 °C) estimated
<b>Initial Boiling point/boiling range:</b>	No data available
<b>Flash Point:</b>	285.8 °F (141.0 °C) estimated
<b>Evaporation rate:</b>	No data available
<b>Percent volatile:</b>	No data available
<b>Flammability (solid, gas):</b>	No data available
<b>Upper/lower flammability or explosive limits:</b>	No data available
<b>Vapour pressure:</b>	0.5 mm Hg @ 68 F
<b>Vapour density:</b>	Not applicable
<b>Relative density:</b>	Not applicable
<b>Solubility in water:</b>	No data available



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Partition coefficient (n-octanol/water):	Not applicable
Auto-ignition temperature:	176 °F (80 °C) estimated
Decomposition temperature:	No data available
Viscosity:	No data available
<b>Other information</b>	
Density:	1.16 g/cm <sup>3</sup> estimated
Explosive properties:	Not explosive.
Oxidizing properties:	Not oxidizing.
Specific gravity:	1.16 estimated

### Section 10. Stability and Reactivity

**Reactivity:** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability:** No decomposition if used according to specifications.

**Possibility of hazardous reactions:** No dangerous reactions known.

**Conditions to avoid:** Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.

**Incompatible materials:** Alcohols. Amines.

**Hazardous decomposition products:** No hazardous decomposition products are known.

### Section 11. Toxicological Information

#### Information on likely routes of exposure

Skin contact : Causes skin irritation. May cause an allergic skin reaction.

Eye contact: Causes serious eye irritation.

#### Symptoms related to the physical, chemical and toxicological characteristics:

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

Dermatitis. Rash.

**Acute toxicity:** Not known for the final mixture.

Dibenzoyl Peroxide (Cas 94-36-0)

Oral: LD50, Rat: 7,710 mg/kg

Serious eye damage/eye irritation: Causes serious eye irritation.

Respiratory sensitization: Not a respiratory sensitizer.

Skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Dibenzoyl Peroxide (CAS 94-36-0) - 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053): Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens: Not listed.

Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity single exposure: Not classified.

Specific target organ toxicity - repeated exposure: Not classified.

Aspiration hazard: Not an aspiration hazard.

Chronic effects: Prolonged inhalation may be harmful



## CS-AA ADHESIVE ACTIVATOR

**Section 12. Ecological Information**

**Aquatic toxicity:** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Mobility in soil:** No data available

**Persistence and degradability:** data available

**Bioaccumulative potential:**

**Partition coefficient n-octanol / water (log Kow):** Dibenzoyl Peroxide: 3.46

**Section 13. Disposal Considerations**

**Disposal instructions:** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations:** Dispose in accordance with all applicable regulations.

**Hazardous waste code:** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products:** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner

**Contaminated packaging:** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**Section 14. Transport Information**

**DOT, IMDG, IATA:**

**Proper shipping name:** Not regulated

**UN number:** Not regulated

**Hazard Class:** Not regulated

**Packing group:** Not regulated

**Environmental hazards:** Not applicable.

**Special precautions for user:** Not applicable

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable

**Transport/Additional information:** Limited quantities are allowed. Refer to 49 CFR for conditions that apply.

**Section 15. Regulatory Information**

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance**

**Dibenzoyl Peroxide (CAS 94-36-0)** Listed

**TSCA (Toxic Substances Control Act):** All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

**CERCLA Hazardous Substance List (40 CFR 302.4):** Not listed.

**SARA 304 Emergency release notification:** Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053):** Not listed.

**SARA 302 Extremely hazardous substance Superfund Amendments and Reauthorization Act of 1986 (SARA):** Not listed.

**Section 16. Other Information**

**HMIS Ratings:**

Health Hazard: 2  
Fire Hazard: 1  
Physical Hazard: 0

**NFPA Ratings:**

Health Hazard: 2  
Fire Hazard: 1  
Physical Hazard: 0

**Key Legend Information:**

IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
HMIS: Hazardous Materials Identification System (USA)  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit

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