



Safety Data Sheet

1 – PRODUCT IDENTIFICATION

PRODUCT NAME:.....**RA9050**
PRODUCT NUMBER:RA9050
DESCRIPTION:Intended for Industrial Use
OTHER MEANS OF IDENTIFICATION:Clear brown liquid with a faint sweet odor..
RECOMMENDED USE:Scale Inhibitor.
RESTRICTIONS ON USE:Use only as directed.

COMPANY:..... CHEMTRON CORPORATION
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2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:.....Clear brown liquid, with a faint sweet odor. Use reasonable care in handling. Protect eyes, skin and avoid spills on clothing. Keep container tightly closed when not in use. Store in cool, dry area. Avoid excessive breathing of vapors. Maintain adequate ventilation

CLASSIFICATION 29 CFR 1910.1200:Product is hazardous by OSHA criteria.

Corrosive To Metals, Category 1
Acute Toxicity: Inhalation, Category 4
Skin Corrosion/Irritation, Category 1A
Serious Eye Damage/Eye Irritation, Category 1



GHS SIGNAL WORD:**Danger**

GHS HAZARD STATEMENTS:.....H290: May be corrosive to metals
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage
H332: Harmful if inhaled; Causes damage to respiratory system



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GHS PRECAUTIONARY STATEMENTS:.....P234: Keep only in original packaging.

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P264: Wash ... thoroughly after handling, wash gloves and contaminated surfaces.

P280: Wear protective gloves/protective clothing/eye protection/face protection; when conditions warrant use, add face shield, apron, and/or rubber boots.

Absorb spillage to prevent material damage.

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

P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately, call a doctor.

P363: Wash contaminated clothing before reuse.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing for 15 min. call a doctor.

P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

P310: Immediately call a POISON CENTER/doctor/...

P321: Specific treatment (see ... on this label).

P405: Store locked up

P501: Dispose of contents/container in accordance with local state and federal regulations.

HAZARDS NOT OTHERWISE CLASSIFIED:Persons with pre-existing skin disorders or impaired respiratory or pulmonary function may be at increased risk to the effects of this substance.

POTENTIAL ENVIRONMENTAL EFFECTS:Avoid release to the environment.

3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER
Diethylenetriaminepenta (methylenephosphonic acid)	30-40	15827-60-8
Sodium Hydroxide	1-10	1310-73-2
2-Phosphono-1,2,4-butanetricarboxylic acid	1-10	37971-36-1

The exact percent by weight of the ingredients in this formulation is proprietary.



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4 – FIRST-AID MEASURES

- BREATHING (INHALATION):**..If symptoms develop, remove individual to fresh air and get medical attention. If breathing is difficult, administer oxygen. Keep at rest. Call for a physician. IF NOT BREATHING, call 911 or and ambulance, then give artificial respiration.
- SWALLOWING (INGESTION):**..IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If victim is conscious, give milk or water to dilute stomach contents. Keep victim warm and quiet. Get medical advice/attention. Never give anything by mouth to an unconscious person.
- EYES:**.....Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.
- SKIN (DERMAL):**Immediately wash skin with plenty of soap and water while removing contaminated clothing and shoes. GET MEDICAL ATTENTION. Contaminated clothing should be discarded in a manner which limits further exposure. Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.
- ACUTE SYMPTOMS:**.....Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.
- IMMEDIATE OR SPECIAL TREATMENT:** Wash with soap and water. Get medical attention if irritation develops or persists. Treat symptomatically and supportively.

5 – FIRE-FIGHTING MEASURES

- FLASHPOINT:**.....> 200 (93.3 C)
- EXTINGUISHING MEDIA:**.....Use water spray to cool unopened containers. Use extinguishing agent suitable for type of surrounding fire.
- SPECIAL FIRE FIGHTING PROCEDURES:**As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

6 – ACCIDENTAL RELEASE MEASURES

- SPILL PROCEDURES:**.....Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided. Prevent entry into waterways, sewers, basements or confined areas. Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Stay upwind. Water Spill: Prevent additional discharge of material if possible to do so without hazard. Warn occupants and downstream/downwind areas of release of corrosive hazardous material and request all to stay clear. This material will sink and is soluble/dispersible in water, it is probably not recoverable. Notify Authorities. LARGE SPILLS: Shut off leak if safe to do so.
- PERSONAL PRECAUTIONS:**....Do not handle until all safety precautions have been read and understood.



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7 – HANDLING and STORAGE

STORAGE:Storage Pressure: Atmospheric. Storage Temperature: Ambient. Keep from freezing. Store in cool/well-ventilated place. Avoid breathing harmful vapors.

HANDLING:.....Keep container closed when not in use. Keep away from food and drinking water. Store in a corrosive resistant container. Read label before use. Leaking or damaged drums must be placed in overpack drums for disposal.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:Use adequate ventilation to keep airborne concentrations low. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PROTECTIVE CLOTHING:Chemical goggles, face shield, always wear eye protection when working with any chemical. Impervious gloves, clean body covering, rubber apron, rubber boots

ADDITIONAL MEASURES:..... Ventilation should be provided to control worker exposures and prevent health risks and as necessary to reduce, prevent and control dust, mist, vapor or aerosol generation. Wash hands before breaks and at the end of workday. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

9 – PHYSICAL / CHEMICAL PROPERTIES

APPEARANCE:Clear brown liquid.

ODOR:Faint sweet odor.

BOILING POINT:226 f (108 C)

VAPOR PRESSURE:.....No data.

VAPOR DENSITY (AIR=1):No data.

SPECIFIC GRAVITY:1.2

pH:1-2

SOLUBILITY IN WATER:Miscible at 77 f (25 C)

FLAMMABILITY:No data.

EVAPORATION RATE:.....No data.

10 – STABILITY and REACTIVITY

REACTIVITY:Reacts with alkalis and generates heat. Strong oxidizing agents.

STABILITY:Stable

HAZARDOUS POLYMERIZATION:Product will not undergo polymerization.

INCOMPATIBILITY:Strong oxidizing agents, Avoid contact with metal salts of sulfides and sulfites which could release toxic gases.

HAZARDOUS REACTIONS:Possibility of hazardous reactions will not occur.

HAZARDOUS DECOMP:Phosphines, Nitrogen oxides, Carbon monoxide, Carbon dioxide.



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11 – TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE:Skin and/or eye contact. Ingestion. Inhalation.
TOXICOLOGICAL CHARACTERISTICS:No data available.
DELAYED EFFECTS:No data available.
IMMEDIATE EFFECTS:No data available.
CHRONIC EFFECTS:No data available.
NUMERICAL MEASURES OF TOXICITY:No data available.
LISTED CARCINOGEN:No data available

12 – ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND DISTRIBUTION: No data available.
PERSISTENCE AND DEGRADABILITY:No data available.
BIOACCUMULATIVE POTENTIAL:This product is not expected to bioaccumulate.
MOBILITY IN SOIL:.....No data available.
OTHER ADVERSE EFFECTS: ..No data available.

13 –DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:Observe all federal, state, and local environmental regulations. Discarded product, as sold, would be considered a RCRA Characteristic Hazardous Waste as it meets the definition /characteristic of corrosivity. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Empty drums should be completely drained and properly bunged, then promptly returned to a drum reconditioner, or properly disposed of.

14 – TRANSPORTATION INFORMATION

PROPER SHIPPING NAME:.....Corrosive liquid, acidic, organic, n.o.s. (Phosphonic acid, hydrochloric acid)
HAZARD CLASS:8,
UN/NA NUMBER:UN3265
PACKAGING GROUP :II





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15 - REGULATIONS

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

EPA SRA Title III Chemical Listings:

TSCA (Toxic Substance Control Act) STATUS:All ingredients listed or exempt.

SECTION 311/312:Acute hazard

SARA SECTION 313:Not Listed.

US EPA CERLA:None of the ingredients are listed.

16 – OTHER INFORMATION

NFPA HAZARD RANKING

HEALTH	FIRE	REACTIVITY	SPECIAL
3	0	1	corr

HMIS HAZARD RANKING

HEALTH	FIRE	REACTIVITY	PPE
3	0	1	

This data is offered in good faith and believed to be accurate, but it is for the users to satisfy themselves of the product suitability for their own purpose. There is no warranty expressed or implied. The recommended hygiene and safe handling procedures are believed to be generally applicable. The information given is designed only as a guidance. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.