



SAFETY DATA SHEET

Product: MARC 59 FIREBALL SEWER SOLVENT

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 59 FIREBALL SEWER SOLVENT**

SDS DATE: 12/26/2018

SUPPLIER: Mid-American Research Chemical Corp.

ADDRESS: P. O. Box 927 Columbus, NE 68602-0927

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RECOMMENDED USE: Sewer and drain opener.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Oxidizing solid- Category 3, Corrosive to metals-Category 1, Serious eye damage/Eye Irritation - Category 1, Skin corrosion/ irritation - Category 1, Acute aquatic toxicity- Category 3



SIGNAL WORD AND HAZARD AND PRECAUTIONARY STATEMENTS - DANGER: May be corrosive to metals. May intensify fire: Oxidizer. Causes severe skin burns and eye damage.

Harmful to aquatic life. **PRECAUTIONARY STATEMENTS: PREVENTION** – Keep away from flammable/combustible/reducing materials.

Keep in original container tightly closed. Use in well-ventilated area. Wash face, hands and any exposed skin thoroughly after handling. Do

not eat, drink or smoke when using this product. Avoid breathing dust or mist. Avoid release to the environment. **Precautionary Statements**

– **Response:** In case of fire: Consider carbon dioxide, dry chemical, dry sand or alcohol resistant foam to extinguish. IF IN EYES: Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation

occurs IF ON SKIN: Take off contaminated clothing and wash before reuse. Wash with plenty of soap and water. If irritation occurs get

medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call POISON CENTER/doctor if you

feel unwell. IF SWALLOWED: Do not induce vomiting. Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell

Precautionary Statements – Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Store in a

corrosive resistant container. **Precautionary Statements – Disposal:** Dispose of contents/container to an approved waste treatment and

disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT.</u>
Sodium Hydroxide	1310-73-2	50 - 60
Sodium Nitrate	7631-99-4	30 - 40

Any concentration shown as a range is to protect confidentiality or is due to process variation.

SECTION 4: FIRST AID MEASURES

EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.

SKIN: Immediately remove contaminated clothing and flush skin with large quantities of water. Get medical attention if irritation persists. Launder clothes before reuse.

INGESTION: **DO NOT INDUCE VOMITING.** Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. If symptoms persist, call POISON CENTER or doctor physician.

INHALATION: Remove to fresh air. If breathing has stopped, give artificial respiration. If symptoms persist, get medical attention.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED: SYMPTOMS: May cause severe skin burns and eye damage.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Alcohol resistant foam, dry chemical, or carbon dioxide, water spray.

UNSUITABLE EXTINGUISHING MEDIA: No data available.



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SPECIAL FIRE FIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved and full protective gear. Keep upwind of the fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contact with combustible materials will not cause spontaneous ignition, however, sodium nitrate will enhance an existing fire.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition products are Nitrous oxides, sodium nitrite and sodium oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES: Use non-combustible material like vermiculite, sand or earth to soak up the product and place into a suitable container for later disposal. Do not absorb in saw-dust or other combustible absorbents. Prevent further leakage or spillage if safe to do so. Prevent discharge to environment. Pick up and arrange for disposal without creating dust.

PROTECTIVE EQUIPMENT: Use personal protective equipment as required. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe area. (See Section 8.)

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Same as emergency procedures.

SECTION 7: HANDLING AND STORAGE

GENERAL HANDLING: Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use personal protection recommended in section 8. Avoid generation of dust.

OTHER PRECAUTIONS: **DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN! CAREFULLY READ ENTIRE LABEL BEFORE USE! Obey all hazard warnings when containers are emptied.**

STORAGE: Store only in original shipping containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store together with combustible substances, reducing agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES

CHEMICAL NAME	CAS#	ACGIH TLV	OSHA PEL	NIOSH
Sodium Nitrate	7631-99-4	No data available	No data available	No data available
Sodium Hydroxide	1310-73-2	2mg/m3	2mg/m3	2mg/m3

ENGINEERING CONTROLS/ VENTILATION: Provide adequate ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

MECHANICAL: N/A

RESPIRATORY PROTECTION: Ensure adequate ventilation, especially in confined areas. Wear respiratory protection where

EYE/FACE PROTECTION: Wear approved chemical safety goggles/face shield at all time.

SKIN PROTECTION/PROTECTIVE GLOVES: Nitrile rubber gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear suitable protective clothing. Eye wash station is recommended.

WORK HYGIENIC PRACTICES: Avoid contact with eyes and skin. Wash hands thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE- PHYSICAL STATE/COLOR: Red powder
ODOR: Odorless
ODOR THRESHOLD: No data available.
pH: 14 at 50 g/l at 20°C (68°F)
SOLUBILITY IN WATER: Soluble in water.
SPECIFIC GRAVITY: 2.065



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MELTING/FREEZING POINT: 307-318°C (584-604°F)
BOILING POINT/BOILING RANGE: No data available.
FLASH POINT/METHOD USED: Not applicable.
EVAPORATION RATE: No data available.
FLAMMABILITY (Solid, Gas): No data available.
FLAMMABILITY LIMITS: **UPPER:** No data available. **LOWER:** No data available.
VAPOR PRESSURE (mmHg): No data available.
VAPOR DENSITY (AIR = 1): No data available.
PARTITION COEFFICIENT, n-OCTANOL/WATER: No data available.
AUTO-IGNITION TEMPERATURE: No data available.
DECOMPOSITION TEMPERATURE: No data available.
KINEMATIC VISCOSITY: No data available.
DYNAMIC VISCOSITY: No data available.
EXPLOSIVE PROPERTIES: Not an Explosive
OXIDIZING PROPERTIES: Oxidizer

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: No data available.

STABILITY: Stable under recommended storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: No data available.

CONDITIONS TO AVOID: Keep away from flammable, combustible and reducing substances.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizing agents, strong acids, flammable, combustible and reducing substances.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Nitrous oxides, sodium nitrite, sodium oxide.

HAZARDOUS POLYMERIZATION: N/A

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 11: TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES(S) OF EXPOSURE:

EYES: Causes severe eye damage.

SKIN: Avoid contact with skin.

INGESTION: Harmful if swallowed.

INHALATION: Avoid breathing dust or mists.

This product as a whole has not been tested for acute toxicity; the following is based on component data:

CHEMICAL NAME	CAS#	ORAL LD50	DERMAL LD50	INHALATION LC50
Sodium Nitrate	7631-99-4	>2000 mg/kg (Rat)	>5000 mg/kg (Rat)	>0.527 mg/l (4-h)
Sodium Hydroxide	1310-73-2	No data available	No data available	No data available

CHEMICAL NAME	SODIUM NITRATE	SODIUM HYDROXIDE
Skin corrosion/irritation	Non-irritant (Rabbit)	Causes severe burns rabbit 24h
Serious eye damage/irritation	Irritant (Rabbit)	Corrosive rabbit 24h
Respiratory or skin sensitization	Does not cause sensitization	Will not occur
Mutagenicity	Negative results	No data available
Carcinogenicity	No carcinogenic properties	No carcinogenic properties
Reproductive toxicity	No data available	No data available
Specific target organ toxicity – single exposure	Classification criteria not met	No data available
Specific target organ toxicity – repeated exposure	Classification criteria not met	No data available
Aspiration hazard	Classification criteria not met	No data available



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DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE

CARCINOGENICITY: This product does not contain carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

NUMERICAL MEASURES OF TOXICITY: Not determined.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: There is no data available for this product as a whole.

CHEMICAL NAME	CAS#	ALGAE/AQUATIC PLANTS	FISH	AQUATIC INVERTEBRATES	CRUSTACEA
Sodium Nitrate	7631-99-4	>1700 mg/l	LC50 (freshwater fish):6000 mg/l 96-h,LC50 (Marine fish): 4400 mg/l 96-h	EC50 Daphnia magna (water flea) 8600 mg/l 24-h	No data available
Sodium Hydroxide	1310-73-2	No data available	LC50 (Oncorhynchus mykiss (rainbow trout): 45.4 mg/l 96 h, LC50 Gambusia affinis (mosquito fish)-125 mg/l – 96 h	LC50 Dendronereides heteropoda(water flea): 4720 mg/l 96 h	No data available

PERSISTENCE AND DEGRADABILITY: No data available.

BIOACCUMULATION: No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with all federal, state and local regulations. Local regulations may be more stringent than Federal or State. Avoid discharge to sewers or waterways.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (for ground/non-bulk containers)

CONTAINER SIZES(S): Bulk

PROPER SHIPPING NAME: CORROSIVE SOLIDS, OXIDIZING, N.O.S. (SODIUM HYDROXIDE, SODIUM NITRATE)

HAZARD CLASS: 8

ID NUMBER: UN3084

PACKING GROUP: PGII

LABEL STATEMENT: CORROSIVE & OXIDIZER

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): Reported/included.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): N/A

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): Not Applicable

SARA TITLE III 311/312 (40CFR370) HAZARD CATEGORIES: Fire, acute health hazards.

SARA TITLE III 313 (40CFR372) REPORTABLE INGREDIENTS: No reportable component.

RCRA Status (40CFR261.33): No reportable components.

OSHA/NTP/IARC Carcinogen Status: Not listed.

Canadian DSL Status: Reported/included.

Chemicals known to the State of California to Cause Cancer or Reproductive Toxicity: None

U.S. STATE RIGHT-TO-KNOW REGULATIONS

CHEMICAL NAME	NEW JERSEY	MASSACHUSETTS	PENNSYLVANIA
Sodium Nitrate	Not listed	Not listed	Not listed



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Sodium Hydroxide	X	X	X
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SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings: Health = 3
Flammability = 0
Reactivity = 2
Other = -
Protection = -

REVISION DATE: 12/26/2018

DISCLAIMER: While the information contained herein is believed to be correct, no warranties are made with respect thereto, and all liability from reliance thereon is disclaimed.