

Issue Date 04/19/2018

Revision Date 09/18/2024

Version 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name USR 2

Other means of identification

Product Code 1025

Details of the supplier of the safety data sheet

Company Name Blue Cardinal Chemical, LLC
3670 Scarlet Oak Blvd.
St. Louis, MO 63122
800-325-3312

Emergency telephone number

Emergency Telephone CHEMTEL 1-800-255-3924

2. HAZARDS IDENTIFICATION

Classification

Acute Toxicity - Oral	Category 4
Skin Corrosion	Category 1A
Eye Damage	Category 1
Aspiration	Category 1

Label elements

Emergency Overview

DANGER

Hazard statements

H302 | Harmful if swallowed.

H314 | Causes severe skin burns and eye damage.

H318 | Causes serious eye damage.

H304 | May be fatal if swallowed and enters airways.



Appearance: Liquid

Physical state: Liquid

Odor: Acid



Precautionary Statements - Prevention

P260 | Do not breathe dust/fume/gas/mist/vapours/spray.

P264 | Wash any exposed body parts thoroughly after handling.

P270 | Do not eat, drink or smoke when using this product.

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

Precautionary Statements - Response

P301 + P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P301 + P330 + P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P310 | Immediately call a POISON CENTER or doctor/physician.

P321 | Specific treatment (see supplemental first aid instruction on this label if immediate administration of antidote/specific measures/cleansing agent/immediate measures is/are appropriate/required).

P330 | Rinse mouth.

P331 | Do NOT induce vomiting.

Precautionary Statements - Storage

P405 | Store locked up.

Precautionary Statements - Disposal

P501 | Dispose of contents/container to appropriate waste disposal entity in accordance with local/regional/national/international regulation.

Additional Precautions

None Known

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO.	FUNCTIONAL PURPOSE	WEIGHT - %	TRADE SECRET
Hydrochloric acid 37%	7647-01-0	Acidity	80 - 90%	*
Nonylphenol ethoxylate	127087-87-0	Surfactant	< 1.0%	*
Alkyl dimethyl ammonium chloride	68424-85-1	Preservative	< 1.0%	*
Styrene/acrylic copolymer 40%	Not Available	Opacifier	< 1.0%	*

***The exact percentage (concentration) of composition has been withheld as a trade secret.**

4. FIRST AID MEASURES**First aid measures****General Advice**

Physicians: No specific treatment. Treat symptomatically. Contact poison treatment specialist if large quantities have been inhaled or ingested.

Skin Contact

Wash skin surfaces thoroughly after contact. Wash clothing and clean shoes thoroughly before reuse. Get medical attention if irritation develops.

Eye Contact

Check for and remove contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Inhalation

Move exposed person to fresh air. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen clothing. Get medical attention immediately.

Ingestion

Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Most important symptoms and effect, both acute and delayed**Symptoms**

Severe eye irritation, burns. Skin irritation, can cause burns with contact. Corrosive to mucous membranes. Mist may be mild to strong irritant, corrosive.

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

Use an extinguishing agent suitable for the surrounding fire.

Specific hazards arising from the chemical

In a fire or if heated, a pressure increase will occur and the container may burst. Thermal decomposition products-carbon monoxide, sulfur oxides, metal oxide/oxides, halogenated compounds.

Protective equipment and precautions for firefighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures****Personal precautions**

No action should be taken involving individual risk or without suitable training. Isolate area. Avoid contact with material. Do not breathe vapors. Provide adequate ventilation. Wear proper personal protective equipment.

Environmental precautions**Environmental precautions**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform relevant authorities if the product reaches sewers, waterways or soil.

Methods and material for containment and cleaning up**Methods for containment & cleaning up**

Stop leak if without risk. Move containers from spill area. Contain or absorb with inert dry material. Dispose of according to local regulations. See Section 1 for emergency contact information and 13 for waste disposal.

7. HANDLING AND STORAGE**Precautions for safe handling****Advice on Safe Handling**

Wear appropriate personal protective equipment (see Section 8). Eating drinking and smoking should be prohibited. Do not get into eyes or on skin. Do not ingest. Keep containers tightly closed. Do not reuse container.

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Store in accordance with local regulations. Store in original container away from foods, drink and incompatible materials. Keep container tightly closed. Do not store unlabeled. Use appropriate containment.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters**

CHEMICAL NAME	ACGIH TWA ppm	OSHA/NIOSH STEL ppm	OSHA/ACGIH STEL mg/m3
Hydrochloric acid 37%	2.00	None	7.00
Nonylphenol ethoxylate	10.00	None	None
Alkyl dimethyl ammonium chloride	1000.00	None	None
Styrene/acrylic copolymer 40%	None	None	None

Appropriate engineering controls**Engineering Controls**

Apply technical measures to comply with occupational exposure limits. Mechanical ventilation, eye-wash stations, showers where necessary.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Safety eye-wear/face shield complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin and body protection

Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Use a properly fitted air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates necessity. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product & the safe working limits of the chosen respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Liquid
Color	White
Odor	Acid
Odor Threshold	NA

<u>Property</u>	<u>Values</u>
PH	02.1 - 04.0
MELTING POINT	NA
FREEZING POINT	6.00 F
BOILING POINT	NA
FLASH PT METHOD	NA
FLASH POINT	NA
EVAPORATION RATE	NA
FLAMMABILITY	Nonflammable
UPPER EXPLOSIVE LIMITS	NA
LOWER EXPLOSIVE LIMITS	NA
VAPOR PRESSURE	NA
VAPOR DENSITY	NA
RELATIVE DENSITY	NA
SOLUBILITY	Completely Water Soluble
PARTITION COEFFICIENT	NA
AUTO-IGNITION TEMPERATURE	NA
DECOMPOSITION TEMPERATURE	NA
SPECIFIC GRAVITY	1.11000
% VOLATILE	NA
VISCOSITY (cst)	NA

10. STABILITY AND REACTIVITY

Reactivity

HAZARDOUS DECOMPOSITION PRODUCTS

Chemical Stability

Stable under normal conditions.

Possibility Of Hazardous Reactions

Reactive with metals.

Conditions To Avoid

Avoid heat and open flames.

Incompatible Materials

STRONG OXIDIZERS, ALKALIS - react with metals producing flammable hydrogen gas which can form explosive mixtures with air.

Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure** Inhalation, Absorption, Ingestion**Product Information**

Skin Contact	Skin irritation, can cause burns with contact.
Eye Contact	Severe eye irritation, burns.
Inhalation	MIST MAY BE MILD TO STRONG IRRITANT, CORROSIVE.
Ingestion	Corrosive to mucous membranes.

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Hydrochloric acid 37% (CAS No. 7647-01-0)	Rat 700 mg/kg		8.3 mg/L, 0.5h rat
Nonylphenol ethoxylate (CAS No. 127087-87-0)	Rat 1600 mg/kg		
Alkyl dimethyl ammonium chloride (CAS No. 68424-85-1)	Rat >50-500 mg/kg		
Styrene/acrylic copolymer 40% (CAS No. Not Available)	Greater than 5,000mg/Kg rat	Greater than 5,000mg/Kg rat	

Delayed and immediate effects as well as chronic effects from short and long-term exposure

EYE CONTACT	Severe eye irritation, burns.
DERMAL	Skin irritation, can cause burns with contact.
ORAL	Corrosive to mucous membranes.
INHALATION	MIST MAY BE MILD TO STRONG IRRITANT, CORROSIVE.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available.

Soil Mobility

No data available.

Persistence and Degradability

No data available.

Bioaccumulation

No data available.

Other Adverse Effects

No data available.

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Hydrochloric acid 37% (CAS No. 7647-01-0)			Fish LC50: 3.25Mg/L, 96h Bluegill Crustacean LC50: 4.92 mg/L, 48h Daphnia

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Disposal of wastes**

Material that cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Processing, use or contamination of the product may change the waste management options. Waste generators must decide if discarded material is a hazardous waste. State and local disposal regulations may differ from federal disposal definitions. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

DOT

UN/ID No.	NA
Shipping Name	Limited Quantity
Technical Name	Consumer Commodity
Hazard Class	NA
Packing Group	NA

15. REGULATORY INFORMATION**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

CHEMICAL NAME	CAS NO.	SARA 313-THRESHOLD VALUES %
Hydrochloric acid 37%	7647-01-0	80 - 90%

US State Regulations**California Proposition 65**

This product contains chemicals known to the state of California to cause cancer, or birth defects or other reproductive harm

CHEMICAL NAME	CAS NO.	CALIFORNIA PROPOSITION 65
Nonylphenol ethoxylate	127087-87-0	< 1.0%
Alkyl dimethyl ammonium chloride	68424-85-1	< 1.0%
Styrene/acrylic copolymer 40%	Not Available	< 1.0%

RQ: 5,000#
RTK: MA, PA, NJ
127087-87-0 Nonylphenol polyethylene glycol ether 90 - 100 %
25322-68-3 Polyethylene glycol 1 - 5 %
123-91-1 1,4-Dioxane 0 - 0.1 %
64-19-7 Acetic acid 0 - 0.1 %
75-21-8 Ethylene oxide 0 - 0.1 %
RTK: MA, PA, NJ,
WARNING! This product contains a chemical known to the State of California to cause cancer birth defects or other reproductive harm.
123-91-1 1,4-Dioxane 0 - 0.1 %
64-19-7 Acetic acid 0 - 0.1 %
75-21-8 Ethylene oxide 0 - 0.1 %
This product contains trace levels of an component known by the state of California to cause cancer, birth defects or other reproductive harm. Acetaldehyde (CAS# 75-07-0), Dioxane (CAS# 123-91-1),Ethylbenzene(CAS# 100-41-4) Ethylene Oxide (CAS# 75-21-8)

16. OTHER INFORMATION

NFPA	Health hazards	3	Flammability	0	Reactivity	0	Other	
HMIS	Health hazards	3	Flammability	0	Reactivity	0	Personal protection	D

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Revision Note

N/A = Not Applicable; N/D = Not Determined

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. 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.

End of Safety Data Sheet