

Safety Data Sheet

Formula No: 2640

Revision Date: 2017/10/24

Superseded Date: 2015/05/01

Mirachem QX-231 Carbon Remover / Degreaser

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY

Product name: Mirachem QX-231 Carbon Remover / Degreaser Identified uses: Concentrated industrial cleaner / degreaser. Use restrictions: Use only for the purposes indicated on the label.

Company: Mirachem, LLC

P.O. Box 14059

Phoenix, Arizona 85063-4059

USA

Email address: <u>SDS@mirachem.com</u>

Customer service: USA (English) Telephone: 1 (800) 847-3527

Emergency phone number(s): USA (English, Business Hours) Telephone: 1 (800) 847-3527

Chemtrec (US, 24 hours) Telephone: 1 (800) 424-9300

2. HAZARD(S) IDENTIFICATION

GHS Classification SKIN CORROSION/IRRITATION: Category 2

EYE DAMAGE/IRRITATION: Category 2A ACUTE AQUATIC HAZARD: Category 3

GHS Label Elements
Pictogram

Signal word

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Warning

Hazard statements Causes skin irritation. (H315)

Causes serious eye irritation (H319)

Harmful to aquatic life. (H402)

Precautionary Statements

Prevention: Wash hands thoroughly after handling. (P264)

Wear protective gloves/eye protection. (P280) Avoid release to the environment. (P273)

Response: IF ON SKIN: Wash with plenty of water (P302 + P352) If skin irritation occurs: Get

medical advice/attention. (P332 + P313) Take off contaminated clothing and wash it

before reuse. (P362 + P364)

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

Get medical advice/attention. (P337 + P313)

Storage: None required.

Disposal: Dispose of contents/container in accordance with local/ regional/ national/ international

regulations. (P501) See SECTION 13 - DISPOSAL CONSIDERATIONS, for additional

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waste disposal information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical characterization:</u> Mixture (water based)

Ingredient:CAS NumberPercentProprietary surfactant blend *Proprietary5 - 10Silicic Acid, sodium salt6834-92-01 - 5

4. FIRST AID MEASURES

Protection of First-Aiders: First aid responders should pay attention to self-protection and use the recommended

protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to SECTION 8 – EXPOSURE CONTROLS / PERSONAL

PROTECTION, for specific personal protective equipment.

Inhalation: No adverse effects are anticipated. Remove to fresh air. If breathing is difficult, get

medical assistance.

Eye contact: May cause serious eye damage. Immediately rinse with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately seek

medical attention.

Ingestion: If swallowed, treat symptomatically and supportively. Wash out mouth with water. Do

not induce vomiting unless directed to do so by medical personnel. If adverse health effects develop, persist or are severe, seek medical attention if you feel unwell. Never

give anything by mouth to an unconscious person.

Skin contact: Prolonged or repeated exposure may cause skin irritation. If on skin, wash with plenty

of water. If you feel unwell or irritation develops or persists, get medical attention. Take

off contaminated clothing and wash it before reuse.

Symptoms and effects, both acute

and delayed:

Aside from the information provided above and below, no additional symptoms and

effects are anticipated.

Notes to physician: No specific antidote. Treatment of exposure should be directed at the control of

symptoms and the clinical condition of the patient. Skin contact may aggravate pre-

existing dermatitis.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire

extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be

less effective. Do not use direct water stream. May spread fire.

Unusual fire and explosion hazards: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition

products:

Decomposition products may include the following materials; carbon dioxide, carbon monoxide, nitrogen oxides.

Special precautions for fire fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire. No action shall be taken involving personal risk or without suitable

training.

Special protective equipment for

fire fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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^{*} Composition of this ingredient is a trade secret.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency

procedures:

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Spilled material may cause a slipping hazard. Use appropriate safety equipment. For

additional information, refer to SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION. Refer to SECTION 7 - HANDLING AND STORAGE, for

additional precautionary measures.

Environmental precautions: Prevent from entering into soil, ditches, storm sewers, waterways and/or ground water.

See SECTION 12 - ECOLOGICAL INFORMATION for additional information.

Contain spilled material; keep from entering soil, surface waters or sewers. Methods for cleaning up:

Small Spills: Clean up with absorbent and collect absorbent for disposal in accordance

with Federal, State or local disposal requirements.

Large Spills: Dike or otherwise contain spilled material to insure runoff does not reach a waterway. Collect and drum off material for disposal in accordance with Federal, State or local disposal requirements. Notify local, state or federal authorities if required. Rinse with water. See SECTION 13 - DISPOSAL CONSIDERATIONS and SECTION 15 -

REGULATORY REQUIREMENTS for additional information.

HANDLING AND STORAGE

Avoid contact with eyes. Wash hands thoroughly after handling. Keep container closed. Precautions for safe handling:

Promptly clean up spills. See SECTION 8 - EXPOSURE CONTROLS / PERSONAL

PROTECTION for additional information.

Conditions for safe storage, including incompatibilities:

Keep containers tightly closed. Protect from freezing; may rupture or degrade product.

Store between 40°F (4°C) and 110°F (43°C). Keep out of reach of children.

The shelf life for unopened containers stored under the above conditions is 36 months

from the date on the package.

Recommended packaging

materials:

Use original container or clean plastic (polyethylene) containers.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters: None established (under ACGIH or OSHA.)

Good ventilation should be sufficient to control worker exposure to airborne Engineering controls:

contaminants. Provide additional ventilation as necessary to keep airborne

concentrations of vapors/mists below threshold limit values. Provide eye wash station

within close proximity to product usage.

Eye/Face protection: Safety glasses with side shields (or chemical goggles) and face shield (if splashing is

likely) to prevent eye and face exposure.

Wear protective gloves/protective clothing as needed to prevent excessive skin contact. Skin protection:

Where diluted product is heated to >140°F, wear thermal protective gloves.

Wear chemical (alkali) resistant, impermeable gloves (nitrile, vinyl or latex of 4 mil Hand protection:

thickness or greater) as needed to prevent skin contact. Where diluted product is

heated to >140°F, wear thermal protective gloves.

Under intended handling conditions, no respiratory protection is needed. Respiratory protection:

Personal hygiene: Use good personal hygiene. Do not consume or store food in the work area. Wash

hands before smoking or eating.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Water white to slightly yellow

clear liquid

11.0 - 11.4

Odor: Mild detergent odor
Odor threshold: Not available

pH: 12.0

Melting point: Not applicable to liquids

Freezing point: $32^{\circ}F (0 ^{\circ}C)$ Initial boiling point: $212^{\circ}F (100^{\circ}C)$

Evaporation rate: > 1 (Butyl Acetate = 1)

Flash point: Not established

Flammability: Not classified Flammable limits in air: Not established

* Absolute (calculated)

pH at use dilution (20%):

Vapor pressure @ 20°C 0.0003 mm Hg*

@ 37°C 0.0003 mm Hg*

0 g/l (0.0 lb./gal)

Vapor density (air = 1)Not establishedRelative density:Not establishedSolubility in water:Complete

Partition coefficient:

Auto-ignition temperature:

Decomposition temperature:

Viscosity @ 20°C:

Liquid density @ 20°C:

Not established
Not established
< 100 cSt
1.04 g/cm³

10. STABILITY AND REACTIVITY

Chemical stability & reactivity: The product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous polymerization will not occur.

VOC Content:

Conditions to avoid: No specific data.

Incompatible materials: Avoid contact with strong acids or strong oxidizers.

Hazardous decomposition Under normal conditions of storage and use, hazardous decomposition products should

products: not be produced. Thermal decomposition may produce CO₂

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11. TOXICOLOGICAL INFORMATION

The GHS health hazard classifications have been calculated adhering to GHS guidelines for mixtures. The Acute Toxicity Estimates for this mixture (ATE_{mix}) are representative of these calculations.

Likely routes of exposure: Inhalation _____ Skin contact ___ X __ Eye contact __ X __ Ingestion ____

Acute Toxicity:

Oral: Not classified (OSHA HCS 2012) LD₅₀ ATE_{mix} > 500 but < 2,500 mg/kg

Dermal: Not classified LD_{50} ATE_{mix} > 2,500 mg/kg

Inhalation: No relevant data available.

Other routes: Not applicable.

Skin corrosion/irritation: Alkaline fluid, may be irritation to skin.
Serious eye damage/irritation: Alkaline fluid, may cause serious irritation.

Skin sensitization: No component of this mixture is known to be a skin sensitizer.

Respiratory sensitizer: No relevant data available.

Chronic Toxicity:

Mutagenicity: No component of this mixture is known to be a mutagen or genotoxin.

Carcinogenicity: No component of this mixture is listed by IARC, NTP, OSHA, or ACGIH as a

carcinogen.

Teratogenicity: No component in this mixture is known to be a teratogen.

Developmental / Fertility No known significant effects or critical hazards.

effects:

Specific Target Organ Toxicity Single dose: No relevant data available. (STOT) Repeat exposure: No relevant data available

Aspiration hazard: No relevant data available.

12. ECOLOGICAL INFORMATION

The GHS health hazard classifications have been calculated adhering to GHS guidelines for mixtures. The Acute Toxicity Estimates for this mixture (ATE_{mix}) are representative of these calculations.

Toxicity:

Algae No relevant data ErC_{50} ATE_{mix} No relevant data

Chronic Aquatic Toxicity No relevant data available.

Persistence and degradability: The individual components of this mixture are readily biodegradable.

Bioaccumulative potential: No relevant data available. Mobility in soil: No relevant data available.

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13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Empty containers may retain some product residues. Rinse container before disposal. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff with soil and waterways.

RCRA Classification: Unused disposed material is *not* a RCRA Hazardous Waste.

Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, State and local waste disposal requirements may be more restrictive or otherwise different from Federal laws and regulations.

14. TRANSPORT INFORMATION

UN Number: UN 1760 Transportation Hazard Class: 8
UN Proper Shipping Name: Corrosive liquids, n.o.s. UN Packing Group: PG III

ADR (EU Carriage): Class 8: Corrosive, PG III RID (Rail) Class 8: Corrosive, PG III AND/ADNR (Inland water): Not available ICAO/IATA (Air) Class 8: Corrosive

IMO/IMDG (Marine): Class 8: Corrosive

DOT Shipping Name: Corrosive Liquid, n.o.s. (contains Silicic Acid, sodium salt), 8, PG III

NMFC Freight Class: Cleaning Compound NOI, 48580, Sub 3, Class 55

HS Tariff Classification 3402.90.5030

(Schedule B)

Special Precautions: No known special precautions.

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15. REGULATORY INFORMATION

US Federal Regulations

SARA Title III

Section 302 – Extremely This product does not contain chemicals at levels which require reporting under this

Hazardous Substance statue.

Section 302.4 & 304: Releases of this product to air, land, or water are not reportable to the National

CERCLA: Hazardous

Response Center under the Comprehensive Environmental Response, Compensation,
Substances

and Liability Act (CERCLA) or to state and local emergency planning committees under

the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

Sections 311 & 312 Immediate (acute) Health Hazard Yes

Delayed (chronic) Health Hazard

Fire Hazard

Reactive Hazard

No
Sudden Release of Pressure

No

Section 313 This product does not contain chemicals at levels which require reporting under this

statue.

TSCA All chemical substances in this material are included on or exempted from listing on the

TSCA Inventory of Chemical Substances.

US State Regulations

Arizona Maricopa County Rule 331 This product is considered a Low-VOC cleaner.

California Safe Drinking Water This product does not contain any materials currently listed by

and Toxic Enforcement Act California as chemicals known to cause cancer or known to have

(Proposition 65) reproductive toxicity under Proposition 65.

BAAQMD This product meets the requirements of the Bay Area Air Quality

Management District Regulation 8, Rule 16.

SCAQMD This product meets the requirements of South Coast Air Quality

Management District (SCAQMD) Rule 1171 for Solvent Cleaning.

Georgia Rule 391-3-02 At use dilution, this product is greater than 80% water which qualifies

this as an "Aqueous Cleaning Solvent". As an "Aqueous Cleaning

Solvent" this product is exempt from Rule 391-3-02.

Michigan Rule R 336.1281 & The absolute (composite) vapor pressure of this product in either

R 336.1212 concentrated or diluted form is less than 0.1 mm Hg under standard conditions. Part (e) under R 336.1281 exempts this product from the requirement for a "Permit to Install". The vapor pressure for this product exempts it from the recordkeeping requirements of R

366.1212 as indicated in Part (3)(b) and clarified by MDEQ

interoffice communication of July 5, 2011.

Pennsylvania Hazardous Substances List This product does not contain chemicals at levels which require

reporting under this statue.

Texas Texas Rule 106.454 – Under this rule, this product is classified as a zero VOC product. The

true vapor pressure is calculated to be < 0.6 pounds per square inch, absolute (psia) at an operating temperature of 100°F. This product meets the requirements of section (2)(C) for a remote reservoir cleaner and as such Section (1)(A) (i) and (ii) do not apply.

Completion of Form PI-7 and monthly record keeping is not required.

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Degreasing Units

International Regulatory Information

Notice: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warrantee, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with their Federal, State/Province, and local laws. The following specific information is made for the purpose of complying with numerous specific foreign regulations.

Country Substance (Chemical) Inventories

Canada DSL The individual components of this mixture are listed.

United States TSCA All chemical substances in this material are included on or

exempted from listing on the TSCA Inventory of Chemical

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Substances.

16. OTHER INFORMATION

HMIS Rating:



Protective Equipment

NFPA Rating:



Special

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Mirachem shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current status of scientific and technical knowledge.

Original Preparation Date: May 1, 2015 Latest Revision Date: October 24, 2017