

SECTION 1: Identification**1.1. Identification**

Product form : Mixture
Product name : Marine Rust Remover
Product code : MRR

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Car cleaning and maintenance

1.3. Supplier

GTECHNIQ LTD	GTECHNIQ NORTH AMERICA
Bridge Business Park	4780 Hammond Industrial Drive
Upper Heyford	Suite 100
Northampton, NN7 3FA - United Kingdom	Cumming GA 30041
T +44 (0)1604 962 553	T (855) 483-2401
uk@gtechniq.com - www.gtechniq.com	infona@gtechniq.com - www.gtechniq.com

1.4. Emergency telephone number

Emergency number : +44 (0)1933 445 260
For Chemical Emergency Call 24hr / day, 7 days / week.

SECTION 2: Hazard(s) identification**2.1. Classification of the substance or mixture****GHS US classification**

Skin corrosion/irritation Category 2	H315 Causes skin irritation
Serious eye damage/eye irritation Category 1	H318 Causes serious eye damage
Skin sensitization, Category 1	H317 May cause an allergic skin reaction

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements**GHS US labeling**

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage

Precautionary statements (GHS US) :

P102 - Keep out of reach of children.
P261 - Avoid breathing fume, mist, spray, vapors.
P280 - Wear eye protection, protective clothing, protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of soap and 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.
P310 - Immediately call a poison center or doctor.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients**3.1. Substances**

Not applicable

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3.2. Mixtures

Name	Product identifier	%	GHS US classification
Sodium thioglycolate	(CAS-No.) 367-51-1	10 – 20	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Sens. 1, H317 Aquatic Acute 3, H402
Secondary alkane sodium salt	(CAS-No.) 97489-15-1	1 – 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Tridecyl alcohol ethoxylate	(CAS-No.) 9043-30-5	1 – 10	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Sodium C14-16 olefin sulfonate	(CAS-No.) 68439-57-6	1 – 10	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Wash skin with plenty of water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after inhalation : May be irritating to the respiratory system.
- Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction.
- Symptoms/effects after eye contact : Causes serious eye damage.
- Symptoms/effects after ingestion : May cause irritation to the digestive tract. May be harmful if swallowed.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically. Call a doctor.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

- Fire hazard : Not flammable.
- Explosion hazard : Product is not explosive.
- Reactivity in case of fire : Not known.
- Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

- Precautionary measures fire : Exercise caution when fighting any chemical fire.
- Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Use water spray or fog for cooling exposed containers.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid contact with skin and eyes.

6.1.1. For non-emergency personnel

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Ventilate area. Avoid breathing fume, mist, spray, vapors.

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6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Absorb spillage.
- Methods for cleaning up : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).
- Other information : Dispose of in accordance with relevant local regulations.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Wear personal protective equipment.
- Hygiene measures : Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight. Keep container closed when not in use. Keep away from food, drink and animal feedingstuffs.
- Incompatible materials : Sources of ignition. Direct sunlight. Strong acids. Strong bases. Strong oxidizing agents.
- Packaging materials : Keep only in original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Marine Rust Remover
No additional information available
Secondary alkane sodium salt (97489-15-1)
No additional information available
Sodium thioglycolate (367-51-1)
No additional information available
Sodium C14-16 olefin sulfonate (68439-57-6)
No additional information available
Tridecyl alcohol ethoxylate (9043-30-5)
No additional information available

8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure adequate ventilation.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure. PPE compliant to the recommended EN/ISO or equivalent standards should be selected.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

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Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear appropriate mask. Where exposure through inhalation may occur from handling or use, respiratory protection equipment is required. Exposure limits for airborne contaminants must not be exceeded.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: pink
Odor	: Unpleasant
Odor threshold	: No data available
pH	: ≈ 3
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 35 °C
Flash point	: > 93 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Soluble. Water: Solubility in water of component(s) of the mixture : • Sodium thioglycolate: 1000000 mg/l • Water: 1000000 mg/l
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at ambient temperature and under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

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10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Secondary alkane sodium salt (97489-15-1)

LD50 oral rat	500 – 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
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Sodium thioglycolate (367-51-1)

LD50 oral rat	50 – 200 mg/kg body weight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD50 dermal rat	1999 mg/kg
LC50 inhalation rat (mg/l)	> 2729 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
ATE US (oral)	504 mg/kg body weight
ATE US (dermal)	1999 mg/kg body weight

Sodium C14-16 olefin sulfonate (68439-57-6)

ATE US (oral)	578 mg/kg body weight
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Tridecyl alcohol ethoxylate (9043-30-5)

ATE US (oral)	500 mg/kg body weight
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Skin corrosion/irritation : Causes skin irritation.
pH: ≈ 3

Serious eye damage/irritation : Causes serious eye damage.
pH: ≈ 3

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Sodium thioglycolate (367-51-1)

LOAEL (animal/female, F0/P)	40 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study), Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects), Guideline: other:Commission Regulation (EC) No. 440/2008 B.35, Remarks on results: other:Generation: P and F1 (migrated information)
NOAEL (animal/male, F0/P)	≥ 80 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Sodium thioglycolate (367-51-1)

LOAEL (oral, rat, 90 days)	60 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
LOAEL (dermal, rat/rabbit, 90 days)	11.25 mg/kg body weight Animal: rat, Guideline: other:According to the standard protocol posted on the NTP website, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
NOAEL (oral, rat, 90 days)	20 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	≥ 180 mg/kg body weight Animal: rat, Guideline: other:According to the standard protocol posted on the NTP website, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

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Symptoms/effects after inhalation	: May be irritating to the respiratory system.
Symptoms/effects after skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract. May be harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Secondary alkane sodium salt (97489-15-1)	
LC50 fish 1	> 1 mg/l
EC50 Daphnia 1	9.2 mg/l Test organisms (species): Daphnia magna
EC50 other aquatic organisms 1	9.81 mg/l waterflea
LC50 fish 2	8.4 mg/l Test organisms (species): Leuciscus idus melanotus
EC50 Daphnia 2	9.8 mg/l Test organisms (species): Daphnia magna
EC50 other aquatic organisms 2	> 61 mg/l
LOEC (chronic)	1.6 mg/l Test organisms (species): Daphnia magna Duration: '22 d'
Sodium thioglycolate (367-51-1)	
LC50 fish 1	> 100 mg/l
EC50 Daphnia 1	38 mg/l Test organisms (species): Daphnia magna
EC50 other aquatic organisms 1	38 mg/l waterflea
Sodium C14-16 olefin sulfonate (68439-57-6)	
LC50 fish 1	> 1 mg/l
EC50 other aquatic organisms 1	> 1 mg/l waterflea
Tridecyl alcohol ethoxylate (9043-30-5)	
LC50 fish 1	> 1 mg/l
EC50 other aquatic organisms 1	> 1 mg/l waterflea

12.2. Persistence and degradability

Iron and General Fallout Remover	
Persistence and degradability	Biodegradable.

12.3. Bioaccumulative potential

Iron and General Fallout Remover	
Bioaccumulative potential	No bioaccumulation.

Sodium thioglycolate (367-51-1)	
Partition coefficient n-octanol/water (Log Pow)	-2.99

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Ecology - waste materials	: Avoid release to the environment.

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SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Secondary alkane sodium salt (97489-15-1)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

Sodium thioglycolate (367-51-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Sodium C14-16 olefin sulfonate (68439-57-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Tridecyl alcohol ethoxylate (9043-30-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

15.2. International regulations

CANADA

Secondary alkane sodium salt (97489-15-1)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

Sodium thioglycolate (367-51-1)

Listed on the Canadian DSL (Domestic Substances List)

Sodium C14-16 olefin sulfonate (68439-57-6)

Listed on the Canadian DSL (Domestic Substances List)

Tridecyl alcohol ethoxylate (9043-30-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

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Full text of H-phrases:

H290	May be corrosive to metals
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H402	Harmful to aquatic life

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.