

Material Safety Data Sheet

Identification of substance

Material name	DESCALER
Material number	CLR 401
Manufacturer	Trion Surfactants Manuf Co LLC
Address	New industrial area - Ajman
MSDS Date	26-08-2023
Prepared by	First Specialize Trading LLC, Nahyan Altanmiyah street - Building num 6 floor6
Telephone	+971 2 4477500

Composition/Information on Ingredients (Substances / Mixtures)

Chemical name	CAS Number	Concentration [%]
HCL	7647-01-0	$\geq 10 - < 20$
Caustic Soda	1310-73-2	1%
Sulphonic acid	1338-43-8	7-10%

The exact percentages of disclosed substances are withheld as trade secrets.

Hazards Identification

Emergency Overview

Appearance	liquid
Colour	light yellow
Odour	pungent

GHS Classification

Skin corrosion	Category 1
Serious eye damage	Category 1

GHS label elements

Hazard pictograms	
Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage.

Precautionary statements

Prevention: P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P363 Wash contaminated clothing before reuse.

Storage: P405 Store locked up.

Disposal: P501 Dispose of contents/container in accordance with local regulation.

FIRST AID MEASURES

General advice

- Move out of dangerous area.
- Get medical attention immediately.
- Show this safety data sheet to the doctor in attendance.
- Do not leave the victim unattended.

If inhaled

- If unconscious, place in recovery position and seek medical advice.
- If symptoms persist, call a physician.
- Move to fresh air.

In case of skin contact

- Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
- Take off contaminated clothing and shoes immediately.
- Wash contaminated clothing before re-use.
- If skin irritation persists, call a physician.
- Wash off immediately with plenty of water for at least 15 minutes.
- Thoroughly clean shoes before reuse.

In case of eye contact

- Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
- Continue rinsing eyes during transport to hospital.
- Remove contact lenses.
- Protect unharmed eye.
- Keep eye wide open while rinsing.
- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If swallowed

- Keep respiratory tract clear.
- Never give anything by mouth to an unconscious person.
- If symptoms persist, call a physician.
- DO NOT induce vomiting unless directed to do so by a physician or poison control center.
- Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed

- Effects are dependent on exposure (dose, concentration, contact time).
- Effects are immediate and delayed.
- Symptoms may include blistering, irritation, burns, and pain.
- Causes severe skin burns and eye damage.
- Review section 2 of SDS to see all potential hazards.

Notes to physician

- Treat symptomatically. Symptoms may be delayed.

Fire Fighting Measures

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

High volume water jet

Specific hazards during firefighting

Do not allow run-off from firefighting to enter drains or water courses.

Hazardous combustion products

- Carbon dioxide (CO₂)
- Carbon monoxide
- Smoke
- Nitrogen oxides (NO_x)
- Chlorine compounds

Specific extinguishing methods

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information

- Collect contaminated fire extinguishing water separately.
- This must not be discharged into drains.
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Standard procedure for chemical fires.

Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment

Environmental precautions

- Prevent further leakage or spillage if safe to do so.
- If the product contaminates rivers and lakes or drains, inform respective authorities.
- Prevent product from entering drains.

Methods and materials for containment and cleaning up

- Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
- Keep in suitable, closed containers for disposal.

Handling and Storage

Advice on safe handling	<ul style="list-style-type: none"> • Do not breathe vapours or spray mist. • Avoid contact with skin and eyes. • For personal protection see section 8. • Smoking, eating and drinking should be prohibited in the application area. • To avoid spills during handling keep bottle on a metal tray. • Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage	<ul style="list-style-type: none"> • Keep container tightly closed in a dry and well-ventilated place. • Observe label precautions. • Electrical installations / working materials must comply with the technological safety standards
Materials to avoid	<ul style="list-style-type: none"> • Oxidizing agents • Keep away from metals. • Store and keep away from bases and alkalies.

Exposure Controls/Personal Protection

Components with workplace control parameters	Contains no substances with occupational exposure limit values.
Engineering measures	effective ventilation in all processing areas
Personal protective equipment	Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection Material	<ul style="list-style-type: none"> • Protective gloves • The suitability for a specific workplace should be discussed. • with the producers of the protective gloves.
Eye protection	<ul style="list-style-type: none"> • Access to clean water to rinse eyes must be available, options include: • eye wash stations or showers, or eye wash bottles with pure water. • Tightly fitting safety goggles • Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	<ul style="list-style-type: none"> • Impervious clothing • Choose body protection according to the amount and concentration of the dangerous substance at the workplace.
Hygiene measures	<ul style="list-style-type: none"> • When using do not eat or drink. • When using do not smoke. • Wash hands before breaks and at the end of workday.

PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Light yellow liquid	Solubility (Water)	SOLUBLE
Odour	pungent	Specific Gravity	1.120g/cm ³
Ph	< 1	Volatiles	> 60 % (Water)
Vapour Pressure	No data available	Flammability	NON FLAMMABLE
Vapour Density	No data available	Flash Point	NOT RELEVANT
Boiling Point	100°C	Upper Explosion Limit	No data available
Melting & Freezing Point	Not applicable	Lower Explosion Limit	No data available
Evaporation Rate	No data available	Solubility in other solvents	Not determined
Partition coefficient: noctanol / water	No data available	Auto-ignition temperature	not determined
Viscosity, kinematic	No data available		

STABILITY AND REACTIVITY

Reactivity

Stable

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

No decomposition if stored and applied as directed.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

- *Oxidizing agents*
- *Organic materials*
- *Metals*
- *Bases*

Hazardous decomposition products

- Carbon oxides
- Chlorine
- Nitrogen oxides (NO_x)
- Sulphur oxides
- Ammonia gas may be liberated at high temperatures.

TOXICOLOGICAL INFORMATION

Potential Health Effects

Aggravated Medical Condition

None known.

Symptoms of Overexposure

- Effects are dependent on exposure (dose, concentration, contact time).
- Effects are immediate and delayed.
- Symptoms may include blistering, irritation, burns, and pain.
- Causes severe skin burns and eye damage.
- Review section 2 of SDS to see all potential hazards.
- Treat symptomatically. Symptoms may be delayed.

Carcinogenicity

- **IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **ACGIH** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Acute toxicity

Product

Acute oral toxicity

Acute toxicity estimate: 4,197 mg/kg

Method: Calculation method

Components

Alcohols, C9-11, ethoxylated

Acute oral toxicity: LD50 Oral Rat: 1,400 mg/kg

Skin corrosion/irritation

Product

Remarks: Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation

Product

Remarks: May cause irreversible eye damage.

Respiratory or skin sensitization

No data available

Germ cell mutagenicity No

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information

Product

Remarks: No data available



ECOLOGICAL INFORMATION

Toxicity No data available

Persistence and degradability

Bioaccumulative potential	Product: Partition coefficient: noctanol/ water Remarks: No data available Components: hydroxyethanoic acid: Partition coefficient: noctanol/ water log Pow: -1.11
Mobility in soil	No information provided.
Other adverse effects	No information provided.
Product	Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances. Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
Additional ecological information	No data available

DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	<ul style="list-style-type: none">• Do not dispose of waste into sewer.• Do not contaminate ponds, waterways or ditches with chemical or used container.• Dispose of in accordance with local regulations.
Contaminated packaging	<ul style="list-style-type: none">• Empty remaining contents.• Dispose of as unused product.• Do not re-use empty containers.

Transport Information

Transportation Regulation: 49 CFR (USA):

UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (SULFAMIC ACID), 8, II

Transportation Regulation: IMDG (Vessel):

UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (SULFAMIC ACID), 8, II

Transportation Regulation: IATA (Cargo Air):

UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (SULFAMIC ACID), 8, II

Transportation Regulation: IATA (Passenger Air):

UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (SULFAMIC ACID), 8, II

Transportation Regulation: TDG (Canada):

UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (SULFAMIC ACID), 8, II

The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Additional transportation classifications noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.



REGULATORY INFORMATION

TSCA list	No substances are subject to a Significant New Use Rule. No substances are subject to TSCA 12(b) export notification requirements.
EPCRA	Emergency Planning and Community Right-to-Know Act
CERCLA	Reportable Quantity: Calculated RQ exceeds reasonably attainable upper limit.
SARA 304 Extremely Hazardous Substances Reportable Quantity	This material does not contain any components with a section 304 EHS RQ.
SARA 311/312 Hazards	Skin corrosion or irritation Serious eye damage or eye irritation
SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
California Prop. 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
The components of this product are reported in the following inventories	<ul style="list-style-type: none"> • DSL All components of this product are on the Canadian DSL. • TSCA On TSCA Inventory. *For information on the country notification status for other regions please contact the manufacturer's regulatory group.
Inventory Acronym and Validity Area Legend:	TSCA (USA), DSL (Canada), NDSL (Canada)

Other Information

Further information		
NFPA	HEALTH	3
	FLAMMABILITY	0
	INSTABILITY	3
	SPECIAL HAZARD	
	0 = not significant, 1 =Slight, 2= Moderate, 3 = High, 4 = Extreme	
HMIS III	HEALTH	3
	FLAMMABILITY	0
	PHYSICAL HAZARD	0
	0 = not significant, 1 =Slight, 2= Moderate, 3 = High, 4 = Extreme, * = Chronic	

OSHA - GHS Label Information:

Disposal methods

Hazard pictograms



Signal word

Danger

Hazard statements

Causes severe skin burns and eye damage.

Precautionary statements

Prevention: Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before reuse.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local regulation.

Version	4.1
Revision Date	02/4/2023
Print Date	04/27/2023

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. Users should make their own investigations to determine the suitability and applicability of the information for their purposes. This SDS has been prepared by the Compliance Services organization supporting this manufacturer, supplier, or distributor.