

Descaler

Heavy Duty Boiler Descaler

SECTION 1: Identification of the substance/mixture and company

1.1 Product identifier

Product Code: 0445
Name: Descaler

1.2 Product uses

For use in boilers.

1.3 Supplier

Manufacturer

Intercon Chemical Company
1100 Central Industrial Drive
Saint Louis, MO 63110
USA

Distributor

Getinge USA Sales, LLC
1 Geoffrey Way
Wayne, NJ 07470
USA

1.4 Emergency telephone number

Information: 1-800-475-9040
Chemtrec: 1-800-423-9400

SECTION 2: Hazards identification (undiluted product)

2.1 Classification of the substance or mixture

Health hazards:	Skin corrosive 1 Eye damage 1
Physical hazards:	Corrosive to metals 1
Environmental hazards:	Not classified

2.2 Label elements

Danger



H314	Causes severe skin burns and eye damage
H290	May be corrosive to metals
P234	Keep only in original packaging
P260	Do not breath dust/fume/gas/mist/vapours/spray
P264	Wash thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Immediately rinse with water for several minutes
P363	Wash contaminated clothing before reuse
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing
P316	Get emergency medical help immediately
P321	For specific treatment, see first aid measures on SDS
P305+P354+P338	IF IN EYES: Immediately rinse with water for several minutes. Remove contacts if present and easy to do. Continue rinsing
P390	Absorb Spillage to prevent material damage
P405	Store locked up
P406	Store in a corrosion resistant container with a resistant inner liner
P501	Dispose of contents/container in accordance with local/regional/national/international regulations

2.3 Other hazards

None identified

SECTION 3: Composition/information on ingredients

Material	CAS Number	Level	Hazards (See section 16)
Hydrochloric acid	7647-01-0	7-12	H314 Causes severe skin burns and eye damage H290 May be corrosive to metals H335 May cause respiratory irritation

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact:	Immediately rinse with water for several minutes. Remove contacts if present and easy to do. Continue rinsing. Get emergency medical help immediately.
Skin contact:	Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. Get emergency medical help immediately.
Inhalation:	Remove person to fresh air and keep comfortable for breathing.
Ingestion:	Rinse mouth. Do NOT induce vomiting.
First aider PPE:	As required to prevent contact. See section 8.2.

4.2 Most important symptoms and effects, both acute and delayed

Eye hazard:	Causes severe eye damage
Skin hazard:	Causes severe skin burns
Respiratory hazard:	May cause irritation
Other hazards:	----

4.3 Indication of any immediate medical attention and special treatment needed

No special treatment or attention required additional to section 4.2.

SECTION 5: Fire fighting measures

Flammability hazard: Water based product. Not combustible.

5.1 Extinguishing media

No special requirements. As appropriate for the fire.

5.2 Special hazards arising from the substance or mixture

No specific hazards arising from the mixture.

5.3 Advice for firefighters

No special measures arising from the mixture.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Take precautions to avoid contact. Use personal protective equipment as detailed in section 8. Spillage may make floors slippery. Keep the area clear. Observe regulations.

6.2 Environmental precautions

Prevent spills from entering water courses.

6.3 Methods and material for containment and cleaning up

Small quantities mop up or use sodium bicarbonate to neutralize.
Large quantities contain and absorb or pump into suitable containers for disposal.

6.4 Reference to other sections

Observe the advice given in sections 8 and 13.

SECTION 7: Handling and storage

Shelf life: Not established.

7.1 Precautions for safe handling

Do not mix with other products. Observe good industrial hygiene.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry place protected from frost, strong alkalis, metals, sulfides, and sulfites. Store upright in original containers. Recommended storage temperature 5–25 °C.

7.3 Product uses

For use in mechanical cleaning equipment, cart washers, sterilizers and cage washers.

SECTION 8: Exposure control and personal protection

8.1 Control parameters

Workplace exposure limits:
Hydrochloric acid 5mg/m³ OSHA

8.2 Exposure controls

These measures are suggested on the basis of general use methods and may not be appropriate to all potential uses of the product. The user is responsible for carrying out a full risk assessment of their specific processes and systems of work.

Eye protection:	Wear chemical resistant safety glasses or goggles
Hand Protection:	Wear nitrile or neoprene gloves. Exact choice of gloves depends on specific risk assessments
Body protection:	As necessary to prevent contact
Respiratory protection:	Use in a well ventilated area. Avoid breathing spray mist. Wear a protective mask if necessary
Other protection:	-
Personal protective equipment:	Exact PPE requirements should be determined from a specific risk assessment of the process being carried out



Environmental protection:	Prevent mixture from entering water courses
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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Colorless liquid
Odor:	Acidic
Odor threshold:	NE
pH:	<1
Melting point	NE
Initial boiling point:	100° C
Flash point:	N/A
Evaporation rate:	>1
Flammability:	N/A
Explosive limits:	N/A

Vapor pressure:	17mm Hg
Vapor density:	0.62 g/mL
Relative density at 20 ^o C	1.51 (typical)
Solubility:	100% water soluble
Partition coefficient:	NE
Auto-ignition temperature	NE
Decomposition temperature	NE
Viscosity:	Water thin

9.2 Other information

No other information available

SECTION 10: Stability and reactivity

10.1 Reactivity

Incompatible with strong alkalis, metals, sulfides and sulfites.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions are expected to occur.

10.4 Conditions to avoid

Extreme temperatures.

10.5 Incompatible materials

Incompatible with strong alkalis, metals, sulfides and sulfites.

10.6 Hazardous decomposition products

Hydrogen chloride and hydrogen gas in contact with some metals.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:	Based on available data, the classification criteria are not met.
Skin corrosion/irritation:	Classified as a severe skin corrosive. See section two.
Serious eye damage/irritation:	Classified as a severe eye damaging chemical. See section two.
Respiratory or skin sensitization:	Contains low level of sensitizing material (See section three). Based on available data, the classification criteria are not met.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive toxicity:	Based on available data, the classification criteria are not met.
STOT single exposure:	Based on available data, the classification criteria are not met.
STOT repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration toxicity:	Based on available data, the classification criteria are not met.

11.2 Routes of exposure/symptoms

Eye contact:	Will cause severe eye damage.
Skin contact:	Will cause severe skin damage.
Inhalation:	May cause irritation
Ingestion:	Will cause irritation to gastrointestinal tract

SECTION 12: Ecological information

12.1 Toxicity

Not classified as dangerous for the environment. All organic ingredients are biodegradable when well diluted.

12.2 Persistence and degradability

Ingredients are biodegradable

12.3 Bio-accumulative potential

Not expected to bio-accumulate.

12.4 Mobility in soil

This product has high water solubility.

12.5 Results of PBT and vPvB assessment

Not regulated through PBT and vPvB assessment.

12.6 Other adverse effects

No other adverse effects are anticipated.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product is considered corrosive waste (Waste code D002) according to RCRA (40 CFR 261). Dispose of in accordance with applicable local, regional, national, and international regulations. Empty cleaned containers can be recycled where facilities exist or sent for landfill or incineration where permitted.

SECTION 14: Transport information

14.1 DoT Information

UN3264

Corrosive liquid, acidic, inorganic, n.o.s. (Contains Hydrochloric acid)

Transportation hazard class 8

Packing group II

Limited quantity 1.0 L

14.2 IATA Information

UN3264

Corrosive liquid, acidic, inorganic, n.o.s. (Contains Hydrochloric acid)

Transportation hazard class 8

Packing group II

Excepted quantity 30mL for inner packaging, 300mL for total outer package.

Limited net quantity 0.5 L

14.3 IMDG Information

UN3264

Corrosive liquid, acidic, inorganic, n.o.s. (Contains Hydrochloric acid)

Transportation hazard class 8

Packing group II

Excepted quantity 30mL for inner packaging, 500mL for outer packaging

Limited quantity 1L

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Title 3: Hydrochloric acid. Reportable under sections 313 and 6607 of the Pollution Prevention Act.

CERCLA: Hydrochloric acid. For more information consult 40 CFR parts 302, 355, 370, 372, and 40 CFR part 68.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements relating to ingredients (see section 3).

H314	Causes severe skin burns and eye damage
H290	May be corrosive to metals
H335	May cause respiratory irritation

Date of issue:
October 21, 2021

This product should be stored, handled and used in accordance with good industrial practice and in conformity with legal regulations. The information in this data sheet is based on the present state of our knowledge and is intended to describe products from the point of view of safety requirements and thus should not be construed as guaranteeing specific properties. It is for users to satisfy themselves of the suitability of this product for their own applications.

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