

Safety Data Sheet

Gardolene D 6812

Revision date : 2018/02/01
Version: 1.0

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(30690373/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

Gardolene D 6812

Recommended use of the chemical and restriction on use

Recommended use*: Surface treatment agent

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

Chemetall U.S., Inc.
675 Central Avenue
New Providence, NJ 07974 – USA

Telephone: +1 800 526-4473
E-mail address: michael.l.chang@basf.com

Emergency telephone number

Telephone: 800-424-9300, 1-703-527-3887

Other means of identification

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Met. Corr.	1	Corrosive to metals
Skin Corr./Irrit.	2	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
Skin Sens.	1	Skin sensitization
Aquatic Acute	3	Hazardous to the aquatic environment - acute
Aquatic Chronic	3	Hazardous to the aquatic environment - chronic

Label elements

Pictogram:

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Signal Word:
Danger

Hazard Statement:

H290 May be corrosive to metals.
H318 Causes serious eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H402 Harmful to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280 Wear protective gloves and eye/face protection.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P272 Contaminated work clothing should not be allowed out of the workplace.
P264 Wash with plenty of water and soap thoroughly after handling.
P234 Keep only in original packaging.

Precautionary Statements (Response):

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.
P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P390 Absorb spillage to prevent material damage.

Precautionary Statements (Storage):

P406 Store in a corrosion-resistant/... container with a resistant inner liner.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
13548-38-4	>= 5.0 - < 7.0%	Nitric acid, chromium(3+) salt
7789-04-0	>= 7.0 - < 10.0%	Phosphoric acid, chromium(3+) salt (1:1)
7697-37-2	>= 0.3 - < 1.0%	Nitric Acid
Trade Secret	>= 5.0 - < 7.0%	Trade secret registry

4. First-Aid Measures

Description of first aid measures

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If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

If on skin:

Flush with copious amounts of water for at least 15 minutes. Change contaminated clothing and shoes. Consult a doctor if skin irritation persists.

If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Hold eyelids open to facilitate rinsing. Immediate medical attention required.

If swallowed:

Rinse mouth thoroughly with water, seek medical attention. Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Never give anything by mouth to an unconscious person. Summon medical aid without delay.

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
carbon dioxide, dry powder, foam, water spray

Special hazards arising from the substance or mixture

Advice for fire-fighters

Protective equipment for fire-fighting:
Wear a self-contained breathing apparatus.

Further information:

Cool endangered containers with water-spray. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective clothing.

Environmental precautions

Methods and material for containment and cleaning up

Neutralize with soda or slaked lime. Pick up with inert absorbent material (e.g. sand, earth etc.). Pack in tightly closed containers for disposal.

7. Handling and Storage

Precautions for safe handling

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Ensure good ventilation/exhaustion at the workplace.

Do not return residues to the storage containers.

Add this product to surface of solution slowly to avoid spattering Do not add large amounts of product to solution at any one time. Ensure adequate ventilation.

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephthalate (PET), Polypropylene (PP), Carbon steel (Iron), tinned carbon steel (Tinplate)

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

Nitric acid, chromium(3+) salt	OSHA PEL	PEL 0.5 mg/m ³ (Chromium (Cr)); TWA value 0.5 mg/m ³ (Chromium (Cr));
	ACGIH TLV	TWA value 0.5 mg/m ³ (Chromium (Cr));
Phosphoric acid, chromium(3+) salt (1:1)	OSHA PEL	PEL 0.5 mg/m ³ (Chromium (Cr)); TWA value 1 mg/m ³ ;
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, manganese salt (1:?)	OSHA PEL	CLV 5 mg/m ³ (manganese (Mn)); CLV 5 mg/m ³ (manganese (Mn));
Manganese, bis(D-gluconato-κO1,κO2)-, (T-4)-	OSHA PEL	CLV 5 mg/m ³ (manganese (Mn)); CLV 5 mg/m ³ (manganese (Mn));

Personal protective equipment

Respiratory protection:

Respiratory protection required in case of exceptional circumstances (e.g.: accidental release, exceeding the occupational exposure limit)

Hand protection:

Use suitable protective gloves made of nitrile rubber or butyl rubber. Please observe the glove manufacturer's instructions on permeability and ruptur times as well as the specific workplace conditions.

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166) protective shield

Body protection:

chemical-protection suit (f.e. according to EN 14605)

General safety and hygiene measures:

Avoid contact with the skin, eyes and clothing. Do not inhale fumes. Hands and/or face should be washed before breaks and at the end of the shift.

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9. Physical and Chemical Properties

Form:	liquid
Odour:	biting, acrid
Colour:	green
pH value:	< 2.5
Freezing point:	0 °C
boiling temperature:	No data available.
Flash point:	Non-flammable.
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Vapour pressure:	No data available.
Density:	1.255 g/cm ³ (20 °C)
Relative density:	1.257
Bulk density:	1,254.58 kg/m ³
Vapour density:	0
Partitioning coefficient n-octanol/water (log Pow):	No data available.
Solubility in water:	fully soluble
Evaporation rate:	1

10. Stability and Reactivity

Reactivity

Corrosion to metals:
Corrosive effect on metals.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

Reacts with metals, with evolution of hydrogen.

Conditions to avoid

Avoid freezing. Avoid heat.
Avoid freezing.

Incompatible materials

bases

Hazardous decomposition products

Decomposition products:
Acid fumes, chromium oxides, nitrogen oxides, phosphorus oxides, carbon oxides

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Primary routes of entry

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Ingestion
Skin

Acute Toxicity/Effects

Skin

Result: Severely irritating.

Eye

Result: Irritant.

Chronic Toxicity/Effects

Symptoms of Exposure

12. Ecological Information

No applicable information available.

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations.

14. Transport Information

Land transport

USDOT

Hazard class:	8
Packing group:	II
ID number:	UN 1760
Hazard label:	8
Proper shipping name:	CORROSIVE LIQUID, N.O.S. (contains CHROMIUM TRINITRATE, CHROMIUM(III) PHOSPHATE)

Sea transport

IMDG

Hazard class:	8
Packing group:	II
ID number:	UN 1760
Hazard label:	8
Marine pollutant:	NO
Proper shipping name:	CORROSIVE LIQUID, N.O.S. (contains CHROMIUM TRINITRATE, CHROMIUM(III) PHOSPHATE)

Air transport

IATA/ICAO

Hazard class:	8
Packing group:	II
ID number:	UN 1760
Hazard label:	8

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Proper shipping name: CORROSIVE LIQUID, N.O.S. (contains CHROMIUM TRINITRATE, CHROMIUM(III) PHOSPHATE)

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

EPCRA 313:

CAS Number

Chemical name

13548-38-4	Nitric acid, chromium(3+) salt
7789-04-0	Phosphoric acid, chromium(3+) salt (1:1)
10024-66-5	1,2,3-Propanetricarboxylic acid, 2-hydroxy-, manganese salt (1:?)
6485-39-8	Manganese, bis(D-gluconato-κO1,κO2)-, (T-4)-

CERCLA RQ

CAS Number

Chemical name

1000 LBS	7697-37-2	Nitric Acid
10 LBS	7789-04-0	Phosphoric acid, chromium(3+) salt (1:1)

State regulations

State RTK

CAS Number

Chemical name

NJ	13548-38-4	Nitric acid, chromium(3+) salt
	7789-04-0	Phosphoric acid, chromium(3+) salt (1:1)
	10024-66-5	1,2,3-Propanetricarboxylic acid, 2-hydroxy-, manganese salt (1:?)
	6485-39-8	Manganese, bis(D-gluconato-κO1,κO2)-, (T-4)-
PA	13548-38-4	Nitric acid, chromium(3+) salt
	7789-04-0	Phosphoric acid, chromium(3+) salt (1:1)
	10024-66-5	1,2,3-Propanetricarboxylic acid, 2-hydroxy-, manganese salt (1:?)
	6485-39-8	Manganese, bis(D-gluconato-κO1,κO2)-, (T-4)-

NFPA Hazard codes:

Health: 3 Fire: 0 Reactivity: 0 Special: C

HMIS III rating

Health: 3 Flammability: 0 Physical hazard: 0

16. Other Information

SDS Prepared by:

Chemetall (now part of BASF Group) NA Product Regulations
SDS Prepared on: 2018/02/01

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in

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a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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