

Safety Data Sheet

Gardolene D 6812

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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

Unsuitable for use: None known

* 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
+1 800 526-4473
sds.na-chemetall@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

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

Label elements

Pictogram:

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Signal Word:
Danger

Hazard Statement:

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P264 Wash with plenty of water and soap thoroughly after handling.
P260 Do not breathe dust or mist.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.

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.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P363 Wash contaminated clothing before reuse.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Precautionary Statements (Storage):

P405 Store locked up.

Precautionary Statements (Disposal):

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

Hazards not otherwise classified

Classified as 'corrosive' due to pH value. (Regulation (EC) No. 1272/2008) The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

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)
10024-66-5	>= 7.0 - < 10.0%	1,2,3-Propanetricarboxylic acid, 2-hydroxy-, manganese

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salt (1:?)

4. First-Aid Measures

Description of first aid measures

General advice:

First aid personnel should pay attention to their own safety. Immediately remove contaminated clothing. Remove affected person from danger area. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice.

If on skin:

Flush with copious amounts of water for at least 15 minutes. Immediate medical attention required.

If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

If swallowed:

Rinse mouth immediately with water. Do not induce vomiting. Summon medical aid without delay.

Most important symptoms and effects, both acute and delayed

Symptoms: Additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Hazards: May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

Indication of any immediate medical attention and special treatment needed

Note to physician

Antidote:	No known specific antidote.
Treatment:	Symptomatic treatment (decontamination, vital functions).

5. Fire-Fighting Measures

Extinguishing media

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

Unsuitable extinguishing media for safety reasons:
water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting:
phosphorus oxides, carbon oxides, nitrogen oxides, chromium oxides
Hazardous decomposition products formed under fire conditions.

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Advice for fire-fighters

Protective equipment for fire-fighting:
Appropriate breathing apparatus may be required.

Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Avoid breathing vapours. Keep away from sources of ignition. Ensure adequate ventilation. Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.

Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents. Ensure adequate ventilation.

7. Handling and Storage

Precautions for safe handling

Do not return residues to the storage containers. Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with skin and eyes. Keep away from food, drink and animal feeding stuffs. Warn users about safety measures and precautions to prevent accidents.

Protection against fire and explosion:

The substance/product is non-combustible. The relevant fire protection measures should be noted.

Conditions for safe storage, including any incompatibilities

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

Further information on storage conditions: The entrance to storage rooms is to be granted only to appropriately trained personnel. Keep only in the original container. Keep in a cool, well-ventilated place. Avoid direct sunlight. Protect from frost. Keep away from heat.

Storage stability:

Storage temperature: 0 - 40 °C

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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
	ACGIH TLV	0.5 mg/m ³ (Chromium (Cr)); TWA value 0.003 mg/m ³ Inhalable fraction (chromium(III));
Phosphoric acid, chromium(3+) salt (1:1)	OSHA PEL	PEL 0.5 mg/m ³ (Chromium (Cr)); TWA value 1
	ACGIH TLV	mg/m ³ ; TWA value 0.003 mg/m ³ Inhalable fraction (chromium(III));

Advice on system design:

Use only in well-ventilated areas.

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate.

Hand protection:

Chemical resistant protective gloves (EN 374), chloroprene rubber (Neoprene), The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream)., Further information on penetration time is available from the manufacturer of the glove.

Eye protection:

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

Body protection:

Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

General safety and hygiene measures:

Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

9. Physical and Chemical Properties

Form:	liquid
Odour:	acid
Colour:	green
pH value:	< 2.0 (20 °C) (undiluted)
solidification temperature:	0 °C
onset of boiling:	not determined
Flash point:	not applicable
Flammability:	not applicable
Lower explosion limit:	not determined
Upper explosion limit:	not applicable
Autoignition:	not determined

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Vapour pressure:	(20 °C) not determined
Density:	1.255 g/cm ³ (20 °C)
Relative density:	1,257
Vapour density:	0
Partitioning coefficient n-octanol/water (log Pow):	No data available.
Solubility in water:	fully soluble
Miscibility with water:	miscible
Evaporation rate:	1

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:

not fire-propagating

Chemical stability

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

Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid

Avoid freezing. Avoid heat.

Incompatible materials

bases

Hazardous decomposition products

Decomposition products:

Possible decomposition products: When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

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.

Acute Toxicity/Effects

Skin

Result: Severely irritating.

Eye

Result: Irritant.

Chronic Toxicity/Effects

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Symptoms of Exposure

Additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

12. Ecological Information

Bioaccumulative potential

Bioaccumulation potential
No data available.

Mobility in soil

Assessment transport between environmental compartments
No data available.

13. Disposal considerations

Waste disposal of substance:
Observe national and local legal requirements.

Container disposal:
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transport Information

Land transport
USDOT

Not classified as a dangerous good under transport regulations

Sea transport
IMDG

Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:
Chemical TSCA, US released / listed

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

EPCRA 313:

CAS Number

13548-38-4

7789-04-0

10024-66-5

Chemical name

Nitric acid, chromium(3+) salt

Phosphoric acid, chromium(3+) salt (1:1)

1,2,3-Propanetricarboxylic acid, 2-hydroxy-, manganese salt (1:?)

CERCLA RQ

1000 LBS

CAS Number

108-88-3

Chemical name

Toluene

State regulations

State RTK

NJ

CAS Number

13548-38-4

7789-04-0

10024-66-5

Chemical name

Nitric acid, chromium(3+) salt

Phosphoric acid, chromium(3+) salt (1:1)

1,2,3-Propanetricarboxylic acid, 2-hydroxy-, manganese salt (1:?)

PA

13548-38-4

7789-04-0

10024-66-5

Nitric acid, chromium(3+) salt

Phosphoric acid, chromium(3+) salt (1:1)

1,2,3-Propanetricarboxylic acid, 2-hydroxy-, manganese salt (1:?)

Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

WARNING: This product can expose you to chemicals including TOLUENE, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

NFPA Hazard codes:

Health: 3

Fire: 0

Reactivity: 0

Special: COR

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: 2019/10/28

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