



Emergency telephone number (United States): CALL : +1-703-527-3887

SAFETY DATA SHEET

D140 - Wheel Brightener

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

1. Identification of the substance/preparation and company/undertaking

Identification of the substance or preparation

Product name : D140 - Wheel Brightener
Product code : DX-9D
Product type : Liquid.
Use of the substance/preparation : Maintenance product.
e-mail address of person responsible for this SDS : sberg@meguiars.com
Information Contact : Product safety department.
Emergency telephone number (with hours of operation) : Europe (Meguiar's) +31-78-6210268 (Office hours).
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2. Hazards identification

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : T; R25
C; R34
R52/53

Human health hazards : Toxic if swallowed. Causes burns.

Environmental hazards : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See section 11 for more detailed information on health effects and symptoms.

3. Composition/information on ingredients

Substance/preparation : Preparation

Ingredient name	CAS number	%	EC number	Classification
Europe				
Ammonium bifluoride	1341-49-7	10 - 30	215-676-4	T; R25 [1] [2] C; R34
Quaternary ammonium chloride	61791-10-4	1 - 5		Xi; R41 [1] N; R51/53
Sweden				
Ammonium bifluoride	1341-49-7	10-15	215-676-4	T; R25 [1] [2] C; R34
Quaternary ammonium chloride	61791-10-4	5-10		Xi; R41 [1] N; R51/53
France				
Ammonium bifluoride	1341-49-7	10 - 30	215-676-4	T; R25 [1] [2] C; R34
Quaternary ammonium chloride	61791-10-4	1 - 5		Xi; R41 [1] N; R51/53
Netherlands				
Ammonium bifluoride	1341-49-7	10-15	215-676-4	T; R25 [1] [2] C; R34
Quaternary ammonium chloride	61791-10-4	5-10		Xi; R41 [1] N; R51/53
Germany				
Ammonium bifluoride	1341-49-7	10 - 30	215-676-4	T; R25 [1] [2] C; R34
Quaternary ammonium chloride	61791-10-4	1 - 5		Xi; R41 [1] N; R51/53
United Kingdom (UK)				
Ammonium bifluoride	1341-49-7	10 - 30	215-676-4	T; R25 [1] [2] C; R34
Quaternary ammonium chloride	61791-10-4	1 - 5		Xi; R41 [1] N; R51/53
Switzerland				
Ammonium bifluoride	1341-49-7	10 - 30	215-676-4	T; R25 [1] [2] C; R34
Quaternary ammonium chloride	61791-10-4	1 - 5		Xi; R41 [1] N; R51/53
Spain				
Ammonium bifluoride	1341-49-7	10 - 30	215-676-4	T; R25 [1] [2] C; R34
Quaternary ammonium chloride	61791-10-4	1 - 5		Xi; R41 [1] N; R51/53
Italy				
Ammonium bifluoride	1341-49-7	10 - 30	215-676-4	T; R25 [1] [2] C; R34
Quaternary ammonium chloride	61791-10-4	1 - 5		Xi; R41 [1] N; R51/53
Greece				
Ammonium bifluoride	1341-49-7	10 - 30	215-676-4	T; R25 [1] [2] C; R34
Quaternary ammonium chloride	61791-10-4	1 - 5		Xi; R41 [1] N; R51/53

See section 16 for the full text of the R-phrases declared above

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in section 8.

4. First-aid measures

First-aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention immediately.
- Skin contact** : In case of contact, immediately flush skin copiously with water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

NFPA

Health	3	Flammability	0	Reactivity	0
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Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : In a fire or if heated, a pressure increase will occur and the container may burst. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
halogenated compounds
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.
- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
- Packaging materials**
- Recommended** : Use original container.

8. Exposure controls/personal protection

Exposure limit values

Ingredient name	Occupational exposure limits
Europe Ammonium bifluoride	EU OEL (Europe, 5/2006). TWA: 2.5 mg/m ³ 8 hour(s).
France Ammonium bifluoride	INRS (France, 6/2006). TWA: 2.5 mg/m ³ 8 hour(s).
Netherlands Ammonium bifluoride	EU OEL (Europe, 5/2006). TWA: 2.5 mg/m ³ 8 hour(s).
Germany	

Ammonium bifluoride	<p>MAK-Werte Liste (Germany, 7/2006). Skin PEAK: 4 mg/m³, (F), 4 times per shift, 15 minute(s). Form: Aerosol. TWA: 1 mg/m³, (F) 8 hour(s). Form: Aerosol.</p> <p>TRGS900 AGW (Germany, 1/2006). PEAK: 5 mg/m³, (F) 15 minute(s). Form: Inhalable fraction. TWA: 2.5 mg/m³, (F) 8 hour(s). Form: Inhalable fraction.</p>
United Kingdom (UK) Ammonium bifluoride	<p>EH40-WEL (United Kingdom (UK), 9/2006). WEL 8 hrs limit: 2.5 mg/m³, (F) 8 hour(s).</p>
Switzerland Ammonium bifluoride	<p>SUVA (Switzerland, 2/2005). STEL: 1.5 mg/m³, (F) 15 minute(s). TWA: 1.5 mg/m³, (F) 8 hour(s).</p>
Spain Ammonium bifluoride	<p>INSHT (Spain, 1/2006). TWA: 2.5 mg/m³, (F) 8 hour(s).</p>
Italy Ammonium bifluoride	<p>Ministero della Salute (Italy, 3/2004). TWA: 2.5 mg/m³, (F) 8 hour(s).</p>
Greece Ammonium bifluoride	<p>PD 90/1999 (Greece, 2/2003). TWA: 2.5 mg/m³, (F) 8 hour(s).</p>
Sweden Ammonium bifluoride	<p>AFS (Sweden, 6/2005). TWA: 2 mg/m³, (F) 8 hour(s).</p>

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Exposure controls

Occupational exposure controls : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.



- Hygiene measures** : Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

General information

Appearance

- Physical state** : Liquid.
- Colour** : Purple.
- Odour** : Mild.

Important health, safety and environmental information

- pH** : 5.5
- Boiling point** : 99°C (210.2°F)
- Explosive properties** : Risk of explosion of the product in the presence of mechanical impact: Not available.
Risk of explosion of the product in the presence of static discharge: Not available.
- Oxidising properties** : Not applicable
- Relative density** : 1.04
- Solubility** : Easily soluble in the following materials: cold water and hot water.
- Vapour density** : >1 [Air = 1]
- Evaporation rate (butyl acetate = 1)** : <1 (Butyl acetate. = 1)
- VOC Content** : 6%

10. Stability and reactivity

- Stability** : Hazardous polymerization may occur under certain conditions of storage or use.
- Conditions to avoid** : No specific data.
- Materials to avoid** : Reactive or incompatible with the following materials: oxidizing materials and alkalis.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Potential acute health effects

- Inhalation** : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Ingestion** : Toxic if swallowed. May cause burns to mouth, throat and stomach.
- Skin contact** : Corrosive to the skin. Causes burns.
- Eye contact** : Corrosive to eyes. Causes burns.

Acute toxicity

Product/ingredient name	Test / Type	Species	Dose	Exposure
Quaternary ammonium chloride	LD50 Oral	Rat	580 mg/kg	-

Potential chronic health effects

- Chronic effects** : No known significant effects or critical hazards.

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Inhalation** : No specific data.
- Ingestion** : Adverse symptoms may include the following:
stomach pains
- Skin** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Eyes** : Adverse symptoms may include the following:
pain
watering
redness

Target organs : Contains material which causes damage to the following organs: mucous membranes, upper respiratory tract, skin, eye, lens or cornea.

12. Ecological information



- Environmental effects** : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Other adverse effects** : No known significant effects or critical hazards.



13. Disposal considerations

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
- Waste classification** : Dispose of according to all federal, state and local applicable regulations.
- Hazardous waste** : Not applicable

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class	UN3267	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (ammonium bifluoride)	8	III		-
ADNR Class	UN3267	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (ammonium bifluoride)	8	III		-

IMDG Class	UN3267	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (ammonium bifluoride)	8	III		-
IATA Class	UN3267	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (ammonium bifluoride)	8	III		-

PG* : Packing group

15. Regulatory information

EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Hazard symbol or symbols :



Corrosive, Toxic

Risk phrases

- : R25- Toxic if swallowed.
- : R34- Causes burns.
- : R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

- : S2- Keep out of the reach of children.
- : S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- : S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.
- : S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Contains

- : ammonium bifluoride 215-676-4

Product use

- : Industrial applications.

Europe inventory

- : **Europe inventory:** All components are listed or exempted.

National regulations

France

Social Security Code, Articles L 461-1 to L 461-7

- : Ammonium bifluoride 32

Reinforced medical surveillance

- : Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable

Germany

Hazardous incident ordinance

- : Applicable. Category: 2 Toxic

Hazard class for water

- : 1 Appendix No. 4

Switzerland

Poison class

- : 3

BAG T

- : 619003

VOC content

- : Liberated.

Italy

Emission control directive

- : 97.9% Not classified.

16. Other information

Full text of R-phrases referred to in sections 2 and 3 - Europe	: R25- Toxic if swallowed. R22- Harmful if swallowed. R34- Causes burns.
Full text of classifications referred to in sections 2 and 3 - Europe	: T - Toxic C - Corrosive Xi - Irritant N - Dangerous for the environment
Full text of R-phrases referred to in sections 2 and 3 - Sweden	: R25- Toxic if swallowed. R34- Causes burns. R41- Risk of serious damage to eyes. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Full text of classifications referred to in sections 2 and 3 - Sweden	: T - Toxic C - Corrosive Xi - Irritant N - Dangerous for the environment
Full text of R-phrases referred to in sections 2 and 3 - France	: R25- Toxic if swallowed. R22- Harmful if swallowed. R34- Causes burns.
Full text of classifications referred to in sections 2 and 3 - France	: T - Toxic C - Corrosive Xi - Irritant N - Dangerous for the environment
Full text of R-phrases referred to in sections 2 and 3 - Netherlands	: R25- Toxic if swallowed. R22- Harmful if swallowed. R34- Causes burns.
Full text of classifications referred to in sections 2 and 3 - Netherlands	: T - Toxic C - Corrosive Xi - Irritant N - Dangerous for the environment
Full text of R-phrases referred to in sections 2 and 3 - Germany	: R25- Toxic if swallowed. R22- Harmful if swallowed. R34- Causes burns.
Full text of classifications referred to in sections 2 and 3 - Germany	: T - Toxic C - Corrosive Xi - Irritant N - Dangerous for the environment
Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK)	: R25- Toxic if swallowed. R34- Causes burns. R41- Risk of serious damage to eyes. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK)	: T - Toxic C - Corrosive Xi - Irritant N - Dangerous for the environment
Full text of R-phrases referred to in sections 2 and 3 - Switzerland	: R25- Toxic if swallowed. R22- Harmful if swallowed. R34- Causes burns.

- Full text of classifications referred to in sections 2 and 3 - Switzerland** : T - Toxic
C - Corrosive
Xi - Irritant
N - Dangerous for the environment
- Full text of R-phrases referred to in sections 2 and 3 - Spain** : R25- Toxic if swallowed.
R22- Harmful if swallowed.
R34- Causes burns.
- Full text of classifications referred to in sections 2 and 3 - Spain** : T - Toxic
C - Corrosive
Xi - Irritant
N - Dangerous for the environment
- Full text of R-phrases referred to in sections 2 and 3 - Italy** : R25- Toxic if swallowed.
R34- Causes burns.
R41- Risk of serious damage to eyes.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Full text of classifications referred to in sections 2 and 3 - Italy** : T - Toxic
C - Corrosive
Xi - Irritant
N - Dangerous for the environment
- Full text of R-phrases referred to in sections 2 and 3 - Greece** : R25- Toxic if swallowed.
R34- Causes burns.
R41- Risk of serious damage to eyes.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Full text of classifications referred to in sections 2 and 3 - Greece** : T - Toxic
C - Corrosive
Xi - Irritant
N - Dangerous for the environment

History

- Date of issue** : 01/15/2008
Date of previous issue : 04/30/2004
Version : 2

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.