# SAFETY DATA SHEET
# Acid Mag Wheel Cleaner
According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

## 1. Identification

*Product identifier*

| | |
|---|---|
| Product name | Acid Mag Wheel Cleaner |
| Product number | 105 |

*Recommended use of the chemical and restrictions on use*

| | |
|---|---|
| Application | Car maintenance product. |
| Uses advised against | No specific uses advised against are identified. |

*Details of the supplier of the safety data sheet*

| | |
|---|---|
| Manufacturer | 3D International LLC<br>20724 Centre Pointe Pkwy<br>Unit 1<br>Santa Clarita, CA 91350<br>888-999-7627 |

*Emergency telephone number*

| | |
|---|---|
| Emergency telephone | CHEMTREC 1-800-424-9300 (US and Canada) |

## 2. Hazard(s) identification

*Classification of the substance or mixture*

| | |
|---|---|
| Physical hazards | Not Classified |
| Health hazards | Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Corr. 1A - H314 Eye Dam. 1 - H318 |
| Environmental hazards | Not Classified |

*Label elements*

Hazard symbols

| | |
|---|---|
| Signal word | Danger |
| Hazard statements | H302+H332 Harmful if swallowed or if inhaled.<br>H314 Causes severe skin burns and eye damage. |

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| | |
|---|---|
| Precautionary statements | P260 Do not breathe vapor/ spray.<br>P261 Avoid breathing vapor/ spray.<br>P264 Wash contaminated skin thoroughly after handling.<br>P270 Do not eat, drink or smoke when using this product.<br>P271 Use only outdoors or in a well-ventilated area.<br>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.<br>P301+P312 If swallowed: Call a poison center/ doctor if you feel unwell.<br>P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.<br>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.<br>P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.<br>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P310 Immediately call a poison center/ doctor.<br>P321 Specific treatment (see medical advice on this label).<br>P363 Wash contaminated clothing before reuse.<br>P405 Store locked up.<br>P501 Dispose of contents/ container in accordance with national regulations. |
| Contains | Sulphuric Acid sol, ammonium bifluoride |

*Other hazards*

This product does not contain any substances classified as PBT or vPvB.

## 3. Composition/information on ingredients

*Mixtures*

| | |
|---|---|
| Sulphuric Acid Solution<br>CAS number: 7664-93-9 | 10-30% |
| Classification<br>Skin Corr. 1A - H314<br>Eye Dam. 1 - H318 | |
| ammonium bifluoride<br>CAS number: 1341-49-7 | 5-10% |
| Classification<br>Acute Tox. 3 - H301<br>Skin Corr. 1B - H314<br>Eye Dam. 1 - H318 | |
| propan-2-ol<br>CAS number: 67-63-0 | 1-5% |
| Classification<br>Flam. Liq. 2 - H225<br>Eye Irrit. 2A - H319<br>STOT SE 3 - H336 | |

The full text for all hazard statements is displayed in Section 16.

## 4. First-aid measures

*Description of first aid measures*

| | |
|---|---|
| General information | Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel. Chemical burns must be treated by a physician. |

# Acid Mag Wheel Cleaner

| | |
|---|---|
| Inhalation | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention. Place unconscious person on their side in the recovery position and ensure breathing can take place. |
| Ingestion | Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person under observation. Get medical attention if symptoms are severe or persist. |
| Skin Contact | It is important to remove the substance from the skin immediately. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention. Chemical burns must be treated by a physician. |
| Eye contact | Rinse immediately with plenty of water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. |
| Protection of first aiders | It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation. |

*Most important symptoms and effects, both acute and delayed*

| | |
|---|---|
| General information | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| Inhalation | A single exposure may cause the following adverse effects: Severe irritation of nose and throat. Symptoms following overexposure may include the following: Corrosive to the respiratory tract. |
| Ingestion | May cause chemical burns in mouth, esophagus and stomach. Symptoms following overexposure may include the following: Severe stomach pain. Nausea, vomiting. |
| Skin contact | Causes severe burns. Symptoms following overexposure may include the following: Pain or irritation. Redness. Blistering may occur. |
| Eye contact | Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness. |

*Indication of immediate medical attention and special treatment needed*

| | |
|---|---|
| Notes for the doctor | Treat symptomatically. |

## 5. Fire-fighting measures

*Extinguishing media*

| | |
|---|---|
| Suitable extinguishing media | The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire. |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |

*Special hazards arising from the substance or mixture*

| | |
|---|---|
| Specific hazards | Containers can burst violently or explode when heated, due to excessive pressure build-up. This product is toxic. Severe corrosive hazard. Water used for fire extinguishing, which has been in contact with the product, may be corrosive. |
| Hazardous combustion products | Thermal decomposition or combustion products may include the following substances: Very toxic or corrosive gases or vapors. |

*Advice for firefighters*

| | |
|---|---|
| Protective actions during firefighting | Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities. |

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| | |
|---|---|
| Special protective equipment for firefighters | Regular protection may not be safe. Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents. |

## 6. Accidental release measures

*Personal precautions, protective equipment and emergency procedures*

| | |
|---|---|
| Personal precautions | Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Avoid inhalation of vapors and spray/mists. Use suitable respiratory protection if ventilation is inadequate. Avoid contact with skin and eyes. |

*Environmental precautions*

| | |
|---|---|
| Environmental precautions | Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. |

*Methods and material for containment and cleaning up*

| | |
|---|---|
| Methods for cleaning up | Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Do not use sawdust or other combustible material. This product is corrosive. Provide adequate ventilation. If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. The contaminated absorbent may pose the same hazard as the spilled material. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Neutralize with alkali. Caution. May generate heat. Following dilution and neutralization, discharge to the sewer with plenty of water may be permitted. The requirements of the local water authority must be complied with if contaminated water is flushed directly to the sewer. For waste disposal, see Section 13. |
| Reference to other sections | For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13. |

## 7. Handling and storage

*Precautions for safe handling*

| | |
|---|---|
| Usage precautions | Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. This product is corrosive. Immediate first aid is imperative. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers. |
| Advice on general occupational hygiene | Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. |

*Conditions for safe storage, including any incompatibilities*

| | |
|---|---|
| Storage precautions | Store away from incompatible materials (see Section 10). Store locked up. Store away from the following materials: Alkalis. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. |
| Storage class | Corrosive storage. |

*Specific end uses(s)*

| | |
|---|---|
| Specific end use(s) | The identified uses for this product are detailed in Section 1. |

## 8. Exposure controls/Personal protection

*Control parameters*

Occupational exposure limits

Sulphuric Acid Solution

# Acid Mag Wheel Cleaner

Long-term exposure limit (8-hour TWA): OSHA 1 mg/m³
Long-term exposure limit (8-hour TWA): ACGIH 0.2 mg/m³ thoracic fraction
A2

propan-2-ol

Long-term exposure limit (8-hour TWA): OSHA 400 ppm 980 mg/m³
Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 492 mg/m³
Short-term exposure limit (15-minute): ACGIH 400 ppm 984 mg/m³
A4

OSHA = Occupational Safety and Health Administration.
ACGIH = American Conference of Governmental Industrial Hygienists.
A2 = Suspected Human Carcinogen.
A4 = Not Classifiable as a Human Carcinogen.

*Sulphuric Acid Solution (CAS: 7664-93-9)*

| | |
|---|---|
| Immediate danger to life and health | 15 mg/m³ |

*propan-2-ol (CAS: 67-63-0)*

| | |
|---|---|
| Immediate danger to life and health | 2000 ppm |

*Exposure controls*

Protective equipment

| | |
|---|---|
| Appropriate engineering controls | Provide adequate ventilation. |
| Eye/face protection | Avoid contact with eyes. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. |
| Hand protection | Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. |
| Other skin and body protection | Wear appropriate clothing to prevent any possibility of skin contact. |
| Hygiene measures | Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. |
| Respiratory protection | No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn. |
| Environmental exposure controls | Keep container tightly sealed when not in use. Avoid release to the environment. |

## 9. Physical and chemical properties

*Information on basic physical and chemical properties*

| | |
|---|---|
| Appearance | Colored liquid. |
| Color | Brownish. |
| Odor | Acidic. |
| Odor threshold | No information available. |
| pH | pH (concentrated solution): 2-3 |
| Melting point | No information available. |

# Acid Mag Wheel Cleaner

| | |
|---|---|
| Initial boiling point and range | No information available. |
| Flash point | No information available. |
| Evaporation rate | No information available. |
| Evaporation factor | No information available. |
| Flammability (solid, gas) | No information available. |
| Upper/lower flammability or explosive limits | No information available. |
| Other flammability | No information available. |
| Vapor pressure | No information available. |
| Vapor density | No information available. |
| Relative density | ~ 1.17 |
| Bulk density | No information available. |
| Solubility(ies) | Soluble in water. |
| Partition coefficient | No information available. |
| Auto-ignition temperature | No information available. |
| Decomposition Temperature | No information available. |
| Viscosity | No information available. |
| Other information | None. |

## 10. Stability and reactivity

| | |
|---|---|
| Reactivity | See the other subsections of this section for further details. |
| Stability | Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions. |
| Possibility of hazardous reactions | No potentially hazardous reactions known. |
| Conditions to avoid | There are no known conditions that are likely to result in a hazardous situation. |
| Materials to avoid | Alkalis. Amines. |
| Hazardous decomposition products | Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Corrosive gases or vapors. |

## 11. Toxicological information

*Information on toxicological effects*

Acute toxicity - oral

| | |
|---|---|
| Summary | Harmful if swallowed. |
| ATE oral (mg/kg) | 1,308.9 |

Acute toxicity - dermal

| | |
|---|---|
| Summary | Based on available data the classification criteria are not met. |

Acute toxicity - inhalation

| | |
|---|---|
| Summary | Harmful if inhaled. |
| ATE inhalation (dusts/mists mg/l) | 1.5 |

Skin corrosion/irritation

# Acid Mag Wheel Cleaner

| | |
|---|---|
| Summary | Causes severe skin burns and eye damage. |
| Extreme pH | Moderate pH ( > 2 and < 11.5). |

Serious eye damage/irritation

| | |
|---|---|
| Summary | Causes serious eye damage. |

Respiratory sensitization

| | |
|---|---|
| Summary | Based on available data the classification criteria are not met. |

Skin sensitization

| | |
|---|---|
| Summary | Based on available data the classification criteria are not met. |

Germ cell mutagenicity

| | |
|---|---|
| Summary | Based on available data the classification criteria are not met. |

Carcinogenicity

| | |
|---|---|
| Summary | Based on available data the classification criteria are not met. |
| IARC carcinogenicity | Contains a substance which may be potentially carcinogenic. IARC Group 3 Not classifiable as to its carcinogenicity to humans. |

Reproductive toxicity

| | |
|---|---|
| Summary | Based on available data the classification criteria are not met. |

Specific target organ toxicity - single exposure

| | |
|---|---|
| Summary | Based on available data the classification criteria are not met. |

Specific target organ toxicity - repeated exposure

| | |
|---|---|
| Summary | Based on available data the classification criteria are not met. |

Aspiration hazard

| | |
|---|---|
| Summary | Based on available data the classification criteria are not met. |

| | |
|---|---|
| General information | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| Inhalation | Corrosive to the respiratory tract. Symptoms following overexposure may include the following: Severe irritation of nose and throat. |
| Ingestion | May cause chemical burns in mouth, esophagus and stomach. Symptoms following overexposure may include the following: Severe stomach pain. Nausea, vomiting. |
| Skin Contact | Causes severe burns. Symptoms following overexposure may include the following: Pain or irritation. Redness. Blistering may occur. |
| Eye contact | Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness. |
| Route of exposure | Ingestion Inhalation Skin and/or eye contact |
| Target Organs | No specific target organs known. |

## 12. Ecological information

| | |
|---|---|
| Ecotoxicity | Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. |

Acute aquatic toxicity

| | |
|---|---|
| Summary | Based on available data the classification criteria are not met. |

Chronic aquatic toxicity

| | |
|---|---|
| Summary | Based on available data the classification criteria are not met. |

*Persistence and degradability*

# Acid Mag Wheel Cleaner

| | |
|---|---|
| Persistence and degradability | The degradability of the product is not known. |

*Bioaccumulative potential*

| | |
|---|---|
| Bio-Accumulative Potential | No data available on bioaccumulation. |
| Partition coefficient | No information available. |

*Mobility in soil*

| | |
|---|---|
| Mobility | The product is water-soluble and may spread in water systems. |

*Other adverse effects*

| | |
|---|---|
| Other adverse effects | None known. |

## 13. Disposal considerations

*Waste treatment methods*

| | |
|---|---|
| General information | The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous. |
| Disposal methods | Do not empty into drains. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. |

## 14. Transport information

| | |
|---|---|
| General | For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section. |

*UN Number*

| | |
|---|---|
| UN No. (TDG) | 3264 |
| UN No. (IMDG) | 3264 |
| UN No. (ICAO) | 3264 |

*UN proper shipping name*

| | |
|---|---|
| Proper shipping name (TDG) | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. |
| Proper shipping name (IMDG) | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. |
| Proper shipping name (ICAO) | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. |

*Transport hazard class(es)*

| | |
|---|---|
| TDG class | 8 |
| TDG label(s) | 8 |
| IMDG Class | 8 |
| ICAO class/division | 8 |

Transport labels


*Packing group*

| | |
|---|---|
| TDG Packing Group | II |
| IMDG packing group | II |
| ICAO packing group | II |

# Acid Mag Wheel Cleaner

*Environmental hazards*

Environmentally Hazardous Substance
No.

*Special precautions for user*

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

| | |
|---|---|
| IMDG Code segregation group | 1. Acids |
| EmS | F-A, S-B |

## 15. Regulatory information

Regulatory References OSHA Hazard Communication Standard 29 CFR §1910.1200

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
The following ingredients are listed or exempt:

*Sulphuric Acid Solution*
EPCRA 302 TPQ 1000 lbs Tier II TPQ 500 lbs

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
The following ingredients are listed or exempt:

*ammonium bifluoride*
Final CERCLA RQ: 100(45.4) pounds (Kilograms)

*Sulphuric Acid Solution*
Final CERCLA RQ: 1000(454) pounds (Kilograms)

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
None of the ingredients are listed or exempt.

SARA 313 Emission Reporting
The following ingredients are listed or exempt:

*ammonium bifluoride*
1.0 %

*Sulphuric Acid Solution*
1.0 %

CAA Accidental Release Prevention
None of the ingredients are listed or exempt.

FDA - Essential Chemical
None of the ingredients are listed or exempt.

FDA - Precursor Chemical
None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories
Acute toxicity (any route of exposure)
Serious eye damage or eye irritation
Skin corrosion or irritation

OSHA Highly Hazardous Chemicals
None of the ingredients are listed or exempt.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins
None of the ingredients are listed or exempt.

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California Air Toxics "Hot Spots" (A-I)
The following ingredients are listed or exempt:

*Sulphuric Acid Solution*

*propan-2-ol*

California Air Toxics "Hot Spots" (A-II)
None of the ingredients are listed or exempt.

California Directors List of Hazardous Substances
The following ingredients are listed or exempt:

*ammonium bifluoride*

*Sulphuric Acid Solution*

*propan-2-ol*

Massachusetts "Right To Know" List
The following ingredients are listed or exempt:

*ammonium bifluoride*

*Sulphuric Acid Solution*

*propan-2-ol*

Rhode Island "Right To Know" List
The following ingredients are listed or exempt:

*Sulphuric Acid Solution*

*propan-2-ol*

Minnesota "Right To Know" List
The following ingredients are listed or exempt:

*Sulphuric Acid Solution*

*propan-2-ol*

New Jersey "Right To Know" List
The following ingredients are listed or exempt:

*ammonium bifluoride*

*Sulphuric Acid Solution*

*propan-2-ol*

Pennsylvania "Right To Know" List
The following ingredients are listed or exempt:

*ammonium bifluoride*

*Sulphuric Acid Solution*

*propan-2-ol*

Inventories

US - TSCA
All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification
None of the ingredients are listed or exempt.

## 16. Other information

# Acid Mag Wheel Cleaner

| | |
|---|---|
| Abbreviations and acronyms used in the safety data sheet | TDG: The transport of dangerous goods act<br>IATA: International air transport association.<br>ICAO: Technical instructions for the safe transport of dangerous goods by air.<br>IMDG: International maritime dangerous goods.<br>CAS: Chemical abstracts service.<br>ATE: Acute toxicity estimate.<br>$LC_{50}$: Lethal concentration to 50 % of a test population.<br>$LD_{50}$: Lethal dose to 50% of a test population (median lethal dose).<br>$EC_{50}$: 50% of maximal effective concentration.<br>PBT: Persistent, bioaccumulative and toxic substance.<br>vPvB: Very persistent and very bioaccumulative. |
| Classification abbreviations and acronyms | Acute Tox. = Acute toxicity<br>Eye Dam. = Serious eye damage<br>Skin Corr. = Skin corrosion |
| Training advice | Read and follow manufacturer's recommendations. |
| Revision date | 1/31/2023 |
| Revision | 3 |
| SDS No. | 4825 |
| Hazard statements in full | H225 Highly flammable liquid and vapor.<br>H301 Toxic if swallowed.<br>H302 Harmful if swallowed.<br>H314 Causes severe skin burns and eye damage.<br>H318 Causes serious eye damage.<br>H319 Causes serious eye irritation.<br>H332 Harmful if inhaled.<br>H336 May cause drowsiness or dizziness. |

End of safety data sheet.