SAFETY DATA SHEET

1. Identification

Product identifier Ultra Shine

Other means of identification

Product Code 1058

Recommended use Wheel Cleaner Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Malco Products, Inc. Company name **Address** 361 Fairview Ave Barberton, OH 44203

United States

Phone 800-253-2526 **Telephone**

Fax 330-753-2025

Website www.malcopro.com msdsinfo@malcopro.com E-mail **Technical Department** Contact person

Phone 1-800-424-9300 **Emergency phone number**

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

> Skin corrosion/irritation Category 1A

Environmental hazards Not classified. **OSHA** defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Harmful if swallowed. Causes severe skin burns and eye damage.

Precautionary statement

Prevention Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when

using this product. Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all Response

contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison

center/doctor.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

Breathing dust, powder, mist or vapor from this product could result in irritation of the eyes and classified (HNOC)

respiratory tract and in permanent lung damage. May cause systemic toxic effects such as

fluorosis, hypocalcemia and cardiac arrhythmia.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Material name: Ultra Shine SDS US

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Chemical name	Common name and synonyms	CAS number	%
Ethylene Glycol Monobutylether		111-76-2	1 - < 3
Hydrogen Fluoride		7664-39-3	1 - < 3
Phosphoric Acid		7664-38-2	1 - < 3
Other components below reportal	ole levels		90 - 100

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or

poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse. Overexposure may produce hypocalcemia, therefore systemic

administration of calcium gluconate may be necessary

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Ingestion

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk.

equipment/instructions
Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Should not be released into the environment.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Material name: Ultra Shine SDS US

7. Handling and storage

Precautions for safe handling Provide adequate ventilation. Do not breathe mist or vapor. Do not get in eyes, on skin, or on

clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling.

Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value	
Ethylene Glycol Monobutylether (CAS 111-76-2)	PEL	240 mg/m3	
,		50 ppm	
Phosphoric Acid (CAS 7664-38-2)	PEL	1 mg/m3	
US. OSHA Table Z-2 (29 CFR 191	0.1000)		
Components	Туре	Value	
Hydrogen Fluoride (CAS 7664-39-3)	TWA	3 ppm	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
Ethylene Glycol Monobutylether (CAS 111-76-2)	TWA	20 ppm	
Hydrogen Fluoride (CAS 7664-39-3)	Ceiling	2 ppm	
,	TWA	0.5 ppm	
Phosphoric Acid (CAS 7664-38-2)	STEL	3 mg/m3	
,	TWA	1 mg/m3	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
Ethylene Glycol Monobutylether (CAS 111-76-2)	TWA	24 mg/m3	
•		5 ppm	
Hydrogen Fluoride (CAS 7664-39-3)	Ceiling	5 mg/m3	
•		_	

Biological limit values

7664-38-2)

Phosphoric Acid (CAS

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Ethylene Glycol Monobutylether (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*

TWA

STEL

TWA

Exposure guidelines

US - California OELs: Skin designation

Ethylene Glycol Monobutylether (CAS 111-76-2) Hydrogen Fluoride (CAS 7664-39-3) Can be absorbed through the skin. Can be absorbed through the skin.

6 ppm

2.5 mg/m3 3 ppm

3 mg/m3

1 mg/m3

Material name: Ultra Shine SDS US

^{* -} For sampling details, please see the source document.

US - Minnesota Haz Subs: Skin designation applies

Ethylene Glycol Monobutylether (CAS 111-76-2) Skin designation applies.

US - Tennessee OELs: Skin designation

Ethylene Glycol Monobutylether (CAS 111-76-2)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Hydrogen Fluoride (CAS 7664-39-3)

Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Ethylene Glycol Monobutylether (CAS 111-76-2)

Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Ethylene Glycol Monobutylether (CAS 111-76-2) Car

Can be absorbed through the skin.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield. Face shield is

recommended.

Skin protection

Hand protection For prolonged or repeated skin contact use suitable protective gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance Clear.
Physical state Liquid.
Form Liquid.
Color Blue.
Odor Mint

Odor threshold Not available.

pH < 1

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density 1.06

Solubility(ies)

Solubility (water)

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

Not available.

Not available.

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Other information

Not explosive. **Explosive properties Oxidizing properties** Not oxidizing.

VOC (Weight %) 4 %

10. Stability and reactivity

Reactivity Reacts violently with strong alkaline substances. This product may react with reducing agents.

Material is stable under normal conditions. Chemical stability Hazardous polymerization does not occur. Possibility of hazardous

reactions

Conditions to avoid Contact with incompatible materials. Do not mix with other chemicals.

Bases. Reducing agents. Incompatible materials

Hazardous decomposition No hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Causes severe skin burns. Skin contact

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Causes serious eye damage. Eye contact

Causes digestive tract burns. Harmful if swallowed. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Information on toxicological effects

Harmful if swallowed. Acute toxicity

Components	Species	Test Results	
Ethylene Glycol Monobut	ylether (CAS 111-76-2)		
<u>Acute</u>			
Dermal			
LD50	Rahhit	100 ma/ka	

LD50 Rabbit 400 mg/kg Inhalation

700 ppm, 7 Hours LC50 Mouse Rat 450 ppm, 4 Hours

Oral

LD50 Guinea pig 1.2 g/kg

> Mouse 1.2 g/kg Rabbit 0.32 g/kg

Rat 560 mg/kg

Hydrogen Fluoride (CAS 7664-39-3)

Acute Inhalation

LC50 Guinea pig 4327 ppm, 15 Minutes

> 3.54 mg/l, 15 Minutes Mouse 500 ppm, 1 Hours Rat 4970 ppm, 5 Minutes 2689 ppm, 15 Minutes

2042 ppm, 30 Minutes

Material name: Ultra Shine SDS US 5 / 10 Components Species Test Results
1278 ppm, 1 Hours

Phosphoric Acid (CAS 7664-38-2)

Acute Dermal

LD50 Rabbit 2740 mg/kg

Oral

LD50 Rat 1530 mg/kg

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye

Causes serious eye damage.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylene Glycol Monobutylether (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

US. National Toxicology Program (NTP) Report on Carcinogens

Not available.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects May be harmful if absorbed through skin. Prolonged inhalation may be harmful.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

May cause systemic toxic effects such as fluorosis, hypocalcemia, and cardiac arrhythmia.

12. Ecological information

EcotoxicityBecause of the low pH of this product, it would be expected to produce significant ecotoxicity upon

exposure to aquatic organisms and aquatic systems.

Components Species Test Results

Ethylene Glycol Monobutylether (CAS 111-76-2)

Aquatic

Fish LC50 Inland silverside (Menidia beryllina) 1250 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Ethylene Glycol Monobutylether 0.83

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

Material name: Ultra Shine SDS US

^{*} Estimates for product may be based on additional component data not shown.

^{*} Estimates for product may be based on additional component data not shown.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

UN3264 **UN** number

UN proper shipping name Transport hazard class(es) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydroflouric Acid)

Class 8 Subsidiary risk

8 Label(s) Ш Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

B2. IB2. T11. TP2. TP27 Special provisions

Packaging exceptions 154 Packaging non bulk 202 Packaging bulk 242

IATA

UN3264 **UN number**

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. UN proper shipping name

Transport hazard class(es)

Class 8 Subsidiary risk Ш Packing group **Environmental hazards** No. 8L **ERG Code**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

aircraft

Passenger and cargo

Allowed.

Cargo aircraft only

Allowed.

IMDG

UN number UN3264

UN proper shipping name Transport hazard class(es) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Class 8 Subsidiary risk П Packing group

Environmental hazards Marine pollutant No.

EmS F-A, S-B

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Not established.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

Material name: Ultra Shine

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IATA; IMDG



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Hydrogen Fluoride (CAS 7664-39-3) Listed. Phosphoric Acid (CAS 7664-38-2) Listed.

SARA 304 Emergency release notification

Hydrogen Fluoride (CAS 7664-39-3) 100 LBS OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories**

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name CAS number Reportable **Threshold** Threshold **Threshold** quantity planning quantity planning quantity, planning quantity, lower value upper value Hydrogen Fluoride 7664-39-3 100 100 lbs

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting) **Chemical name CAS** number % by wt. Hydrogen Fluoride 7664-39-3 1 - < 3

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

No

Hydrogen Fluoride (CAS 7664-39-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Hydrogen Fluoride (CAS 7664-39-3)

Safe Drinking Water Act

Not regulated.

(SDWA)

Material name: Ultra Shine SDS US

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Ethylene Glycol Monobutylether (CAS 111-76-2)

Hydrogen Fluoride (CAS 7664-39-3)

Phosphoric Acid (CAS 7664-38-2)

US. Massachusetts RTK - Substance List

Ethylene Glycol Monobutylether (CAS 111-76-2)

Hydrogen Fluoride (CAS 7664-39-3) Phosphoric Acid (CAS 7664-38-2)

US. New Jersey Worker and Community Right-to-Know Act

Ethylene Glycol Monobutylether (CAS 111-76-2)

Hydrogen Fluoride (CAS 7664-39-3) Phosphoric Acid (CAS 7664-38-2)

US. Pennsylvania Worker and Community Right-to-Know Law

Ethylene Glycol Monobutylether (CAS 111-76-2)

Hydrogen Fluoride (CAS 7664-39-3)

Phosphoric Acid (CAS 7664-38-2)

US. Rhode Island RTK

Hydrogen Fluoride (CAS 7664-39-3) Phosphoric Acid (CAS 7664-38-2)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information, including date of preparation or last revision

 Issue date
 03-28-2016

 Revision date
 04-29-2016

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Material name: Ultra Shine sps us

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Disclaimer

Malco Automotive cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information in the sheet was written based on the best knowledge and experience currently available.

Revision Information

Hazard(s) identification: Hazard statement Hazard(s) identification: Response

Hazard(s) identification: GHS Symbols

Exposure controls/personal protection: Eye/face protection Exposure controls/personal protection: Hand protection

Toxicological information: Acute toxicity Toxicological information: Skin contact

GHS: Classification

 Material name: Ultra Shine
 SDS US

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