

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/09/2017 Revision date: 03/23/2017 Supersedes: 03/16/2017 Version: 3.0

.1. Identification	
Product form	: Mixture
Trade name	: MasterBrite
Product code	: 1010
.2. Recommended use and restriction	ns on use
Recommended use	: Acidic cleaner
.3. Supplier	
Synthetic Labs	
24 Victory Lane Dracut, MA 01826 - United States T 800.255.4050 - F 978.957.5122 www.syntecpro.com	
I.4. Emergency telephone number	
Emergency number	: Infotrac 24 Hour Medical Emergency Number: 1-800-535-5053
SECTION 2: Hazard(s) identificatio	n
2.1. Classification of the substance or	mixture
GHS US classification	
Corrosive to metals Category 1	May be corrosive to metals
Acute toxicity (oral) Category 4	Harmful if swallowed
Skin corrosion/irritation Category 1A	Causes severe skin burns and eye damage
Serious eye damage/eye irritation Category	1 Causes serious eye damage
Carcinogenicity Category 1A	May cause cancer
2.2. GHS Label elements, including pr	ecautionary statements
GHS US labeling Hazard pictograms (GHS US)	
Signal word (GHS US)	: Danger
Signal word (GHS US) Hazard statements (GHS US)	: May be corrosive to metals
<b>o</b> ( )	: May be corrosive to metals Harmful if swallowed
<b>o</b> ( )	: May be corrosive to metals Harmful if swallowed Causes severe skin burns and eye damage
<b>o</b> ( )	: May be corrosive to metals Harmful if swallowed Causes severe skin burns and eye damage Causes serious eye damage
Hazard statements (GHS US)	: May be corrosive to metals Harmful if swallowed Causes severe skin burns and eye damage Causes serious eye damage May cause cancer
<b>o</b> ( )	<ul> <li>May be corrosive to metals Harmful if swallowed Causes severe skin burns and eye damage Causes serious eye damage May cause cancer</li> <li>Obtain special instructions before use.</li> </ul>
Hazard statements (GHS US)	: May be corrosive to metals Harmful if swallowed Causes severe skin burns and eye damage Causes serious eye damage May cause cancer
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Store locked up.

Store in corrosive resistant container with a resistant inner liner. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

#### No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

#### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

#### Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Sulfuric Acid	(CAS-No.) 7664-93-9	15 – 20	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 Carc. 1A, H350
Ammonium Hydrogendifluoride	(CAS-No.) 1341-49-7	10 – 15	Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Eye Dam. 1, H318

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately. In case of skin contact, wearing rubber gloves rub 2.5% calcium gluconate gel continuously into the affected area for 1.5 hours or until further medical care is available.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and effect	ts (acute and delayed)
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.
4.3. Immediate medical attention and spectra symptomatically.	cial treatment, in necessary
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguish	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the ch	emical
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Special protective equipment and pr	ecautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release meas	ures
6.1. Personal precautions, protective equ	ipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapours/spray.

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6.1.2.	For emergency responders	
Protec	tive equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2.	Environmental precautions	
Avoid re	elease to the environment. Notify authori	ties if product enters sewers or public waters.
6.3.	Methods and material for containm	ent and cleaning up
Metho	ds for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other	information	: Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	
For furth	ner information refer to section 13.	
SECT	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Preca	utions for safe handling	: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.
Hygier	ne measures	: Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2.	Conditions for safe storage, includ	ng any incompatibilities
Storag	e conditions	: Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store locked up. Store in a well-ventilated place. Keep cool.
Incom	patible materials	: Metals.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

MasterBrite		
No additional information available		
Ammonium Hydrogendifluoride (1341-49-7)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH TWA (mg/m <sup>3</sup> )	≈ 2.5 fibers/cm <sup>3</sup>	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL (TWA) (mg/m³)	≈ 2.5 mg/m³	
Sulfuric Acid (7664-93-9)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Sulfuric acid	
ACGIH TWA (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>	
Remark (ACGIH)	Pulm func	
USA - OSHA - Occupational Exposure Limits		
Local name	Sulfuric acid	
OSHA PEL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>	

#### 8.2. Appropriate engineering controls

Appropriate engineering controls	:	Ens
Environmental exposure controls	:	Avo

Ensure good ventilation of the work station. Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

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#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### **Respiratory protection:**

Wear respiratory protection.

#### Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties		
0.1. Information on basic physical and ch	emical properties	
Physical state	: Liquid	
Appearance	: Liquid.	
Color	: pink	
Odor	: acidic	
Odor threshold	: No data available	
рН	: 1	
Melting point	: Not applicable	
Freezing point	: 32 °F	
Boiling point	: No data available	
Flash point	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Not applicable.	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Specific gravity / density	: 1.17 g/m³	
Solubility	: No data available	
Partition coefficient n-octanol/water (Log Pow)	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
0.2. Other information		
lo additional information available		

SECTION 10: Stability and reactivity			
10.1.	Reactivity		

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

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10.4. Conditions to avoid		
None under recommended storage and handling c	onditions (see section 7).	
10.5. Incompatible materials		
metals.		
10.6. Hazardous decomposition products		
nder normal conditions of storage and use, hazardous decomposition products should not be produced.		
SECTION 11: Toxicological informatic	on and a second s	
11.1. Information on toxicological effects		
Acute toxicity (oral)	: Harmful if swallowed.	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
ATE US (oral)	1083.333 mg/kg body weight	
Ammonium Hydrogendifluoride (1341-49-7)		
LD50 oral rat	130 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral)	
Sulfuric Acid (7664-93-9)		
LD50 oral rat	≈ 2140 mg/kg	
LC50 inhalation rat (mg/l)	0.38 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (mixture of vapour and aerosol), 14 day(s))	
Skin corrosion/irritation	: Causes severe skin burns.	
	рН: 1	
Serious eye damage/irritation	: Causes serious eye damage.	
	pH: 1	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: May cause cancer.	
Sulfuric Acid (7664-93-9)		
National Toxicity Program (NTP) Status	Known Human Carcinogens	
Reproductive toxicity	: Not classified	
Specific target organ toxicity – single exposure	: Not classified	
Specific target organ toxicity – repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
Viscosity, kinematic	: No data available	
Symptoms/effects after skin contact	: Burns.	
Symptoms/effects after eye contact	: Serious damage to eyes.	
Symptoms/effects after ingestion	: Burns.	
SECTION 12: Ecological information		

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12.1. Toxicity
Ecology - general
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Ecology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.
Ammonium Hydrogendifluoride (1341-49-7)	
LC50 fish 1	421.4 mg/l (96 h, Pisces, Estimated value)
Sulfuric Acid (7664-93-9)	
LC50 fish 1	16 – 28 mg/l (96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value, Lethal)
EC50 Daphnia 1	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)

12.2. Persistence and degradability

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Ammonium Hydrogendifluoride (1341-49-7)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	
Sulfuric Acid (7664-93-9)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	

#### 12.3. **Bioaccumulative potential**

Ammonium Hydrogendifluoride (1341-49-7)		
Bioaccumulative potential	Not bioaccumulative.	
Sulfuric Acid (7664-93-9)		
Bioaccumulative potential	Not bioaccumulative.	

Ecology - soil	No (test)data on mobility of the substance available.
Sulfuric Acid (7664-93-9)	
Surface tension	No data available in the literature
Ecology - soil	No (test)data on mobility of the substance available.

#### Other adverse effects 12.5.

No additional information available

SECTION 13: Disposal consideration	S
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN2922 Corrosive liquids, toxic, n.o.s. (Ammonium Hydrogendifluoride, Sulfuric Acid), 8 (6.1), II
UN-No.(DOT)	: UN2922
Proper Shipping Name (DOT)	: Corrosive liquids, toxic, n.o.s.
	Ammonium Hydrogendifluoride, Sulfuric Acid
Class (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Packing group (DOT)	: II - Medium Danger
Subsidiary risk (DOT)	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Hazard labels (DOT)	: 8 - Corrosive 6.1 - Poison
	CORROSIVE 3
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 243

: G - Identifies PSN requiring a technical name

DOT Symbols

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DOT Special Provisions (49 CFR 172.102)	:	B3 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks and DOT 57 portable tanks are not authorized. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	:	154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	1 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	30 L
DOT Vessel Stowage Location	:	B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	:	40 - Stow "clear of living quarters"
Emergency Response Guide (ERG) Number	:	154
Other information	:	No supplementary information available.
Transportation of Dangerous Goods		

Not applicable

#### Transport by sea

Not regulated

#### Air transport

Not regulated

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

Ammonium Hydrogendifluoride (1341-49-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313		
CERCLA RQ	100 lb	
Sulfuric Acid (7664-93-9)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313 Subject to reporting requirements of United States SARA Section 313		
CERCLA RQ	1000 lb	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb	
	1000 lb	

## CANADA

#### Ammonium Hydrogendifluoride (1341-49-7)

Listed on the Canadian DSL (Domestic Substances List)

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Sulfuric A	Acid (7664-93-9)	
Listed on	the Canadian DSL (Domestic Substances List)	
EU-Regulations		
	al information available	
National reg	gulations	
Sulfuric A	Acid (7664-93-9)	
Listed as	carcinogen on NTP (National Toxicology Program)	
15.3. US Sta	ate regulations	

Component	State or local regulations
Ammonium Hydrogendifluoride(1341-49-7)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Sulfuric Acid(7664-93-9)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

### **SECTION 16: Other information**

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Revision date	: 03/23/2017
Hazard Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.