

Safety Data Sheet according to Regulation (EC) No. 878/2020

Date of Compilation/Revision: 14.05.2025.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier 7Artists Glass Etching paste

Type of substance: CLP Mixture

UFI: 5300-P0FW-200R-GFYH

1.2. Relevant identified uses of the substance or mixture and uses advised against

Glass etching paste for hobby purposes

1.3. Details of the supplier of the safety data sheet

Optio Cycle GmbH

10117 Berlin, Leipziger Platz 15, Németország

Email: optiocycle@gmail.com

Weblap: www.optiocycle.de

1.4. Emergency telephone number

https://echa.europa.eu/documents/10162/23019181/emergency_phone_numbers_en.pdf/d911af43-4bcf-9371-a59d-a20736d91e7d

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Met. Corr. 1 H290	May be corrosive to metals.
Acute Tox. 4 H302	Harmful if swallowed
Skin Corr. 1B H314	Causes severe skin burns and eye damage
Eye Dam. 1 H318	Causes serious eye damage.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal Word: Danger

Hazard Statements

H290 May be corrosive to metals.

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

Precautionary Statements

P264 Wash the hands and the face thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P310 Immediately call a POISON CENTER/doctor.

P405 + P234 Store locked up. Keep only in original container.

P501 Dispose of contents/ container in accordance with the local regulations

UFI: 5300-P0FW-200R-GFYH

Hazardous components which must be listed on the label:

ammonium bifluoride, sulfuric acid

2.3. Other hazards

The raw material/ mixture does not contain any ingredients that are 0.1 % or higher concentrations of persistent, very bio-accumulative and toxic PTB or very persistent very bioaccumulative vPvB substance is considered.

Ecological information and toxicological information:

This substance/mixture does not contain ingredients that which have properties that damage the endocrine system 0.1% or higher levels of REACH point f) of Article 57 of the Regulation, (EU) 2017/2100 Commission Delegated Regulation or (EU) According to Commission Regulation 2018/605.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

The details below includes all impurities and by-products that contribute to the product classification or that have an occupational exposure limits.

Hazardous Substance(s): ammonium bifluoride (SCL: Skin Irrit. 2 H315: 0,1 - < 1 %, Eye Irrit. 2 H319: 0,1 - < 1 %, Skin Corr. 1B H314 >= 1 %)

concentration: 5- 15%

EC-No.: 215-676-4

CAS-No.: 1341-49-7

Index No: 009-009-00-4

Classification according to Regulation (EC) No 1272/2008 : Acute Tox. 3* H301 (ATE oral: 130 mg/kg), Skin Corr. 1B H314, Eye Dam. 1+ H318

Registration number : 01-2119489180-38-xxxx

Substance with Community workplace exposure limit: silica, synthetic amorphous silica, pyrogenic (smoked) amorphous silica

concentration: < 2%

EC-No.: 238-878-4

CAS-No.: 14808-60-7

Classification according to Regulation (EC) No 1272/2008 : --

Hazardous Substance(s): Sulphuric acid (Substance with Community workplace exposure limit) (SCL: Skin Corr. 1A H314: c ≥ 15 %; Skin Irrit. 2 H315: 5 ≤ c < 15 %, Eye Irrit. 2 H319: 5 ≤ c < 15 %, Met. Corr. 1 H290: c ≥ 0,3 %) Note B

concentration: < 1%

EC-No.: 231-639-5

CAS-No.: 7664-93-9

Index No: 016-020-00-8

Classification according to Regulation (EC) No 1272/2008 : Met. Corr. 1+ H290, Skin Corr. 1A H314,, Eye Dam. 1+ H318

Registration number : 01-2119458838-20- XXXX

* minimum classification for a category

+ Harmonized classification supplementing with manufacturer's classification

(*) Indicates that the given entry is subject to individual concentration limits for acute toxicity in accordance with Directive 67/548/EEC. These concentration limit values cannot correspond to the concentration limit values according to this regulation, especially if a minimum classification has been made. However, when the * symbol is indicated, the classification of the classification item in terms of acute toxicity may cause special concern.

Note B: Certain substances (acids, alkalis, etc.) are in the form of aqueous solutions of different concentrations and should therefore be labeled differently as the degree of danger varies depending on the concentration. The items supplemented with Note B has a general description : ... % nitric acid. In this case, the supplier of the substance must indicate the concentration of the

solution on the label. Unless otherwise stated, it is to be assumed that the percentage concentration is expressed as a percentage by weight.

Refer to Section 16 for full details of the hazard statements and Notas.

SECTION 4: First aid measures

4.1. Description of necessary first-aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.

If possible, the MSDS should be shown. Take off all contaminated clothing immediately.

Inhalation:

Remove the injured person from the danger zone to fresh air and keep at rest.

If symptoms persist or worsen, seek medical attention.

Eye contact:

Call a doctor/seek medical attention immediately. Protect the uninjured eye. Flush the affected eye with plenty of water for at least 15 minutes, lifting the lower and upper eyelids – remove contact lenses, if present and easy to do. Cover the affected eye with gauze/clean tissue.

Skin contact:

Take off all contaminated clothing immediately. Wash with soap and plenty of water or take a shower. Cover with gauze/clean cloth and seek medical attention immediately.

Ingestion:

Seek medical attention immediately. Rinse the victim's mouth with water, but stop if the victim feels pain. Keep the airway clear. Do not induce vomiting! Do not give milk or alcoholic beverages.

4.2. Most important symptoms and effects, both acute and delayed

See section 2 for expected effects! We have no information about symptoms yet..

4.3. Indication of immediate medical attention and special treatment needed

Burns require immediate medical attention to prevent the development of difficult-to-heal wounds and ulcers.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Product itself is not combustible; define extinguishing measures according to neighbouring conditions.

Not to be used : High power water jet.

5.2. Special hazards arising from the substance or mixture

The product is not flammable. During combustion or thermal decomposition, hazardous vapors and gases - hydrogen fluoride, nitrogen oxides (NOx), ammonia, sulfur oxides (SOx) may be formed.

5.3. Advice for firefighters

Wear full acid-resistant protective clothing and self-contained breathing apparatus. Cool closed containers at risk with water spray. Collect contaminated extinguishing water separately and do not discharge into drains or sewers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment (see section 8). Avoid direct contact with the product, do not step into spilled product. Eliminate sources of ignition. Keep unauthorized persons away. Ventilate the area..

6.2. Environmental precautions

Absorb spilled material to prevent damage to surrounding materials. Do not allow to enter surface or ground water, drains or sewers.

6.3. Methods and materials for containment and cleaning up

For small spills, soak up with a cloth and dispose of the cloth safely.

Stop the spill if safe to do so. Eliminate sources of ignition.

Contain and recover the spilled material if possible. Soak up the residue with dry sand, earth or similar inert absorbent material and collect in acid-resistant containers for later disposal.

Wash the contaminated area with plenty of water.

6.4. Reference to other sections

See Section 7 for safe handling.

Use personal protective equipment recommended in section 8.

For disposal see section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Use personal protective equipment (see section 8). Avoid direct contact, ingestion and inhalation of the product. Remove contaminated clothing and wash before reuse.

General occupational hygiene advice: General occupational hygiene measures should be used to ensure safe handling of the product. Do not eat, drink or smoke when using the product. Wash hands and face thoroughly after handling and using the product..

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Store in original/acid-resistant/acid-resistant lined packaging. Store in a cool, dry, well-ventilated place, away from incompatible materials.

7.3. Specific end use(s)

See section 1.2

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Components with workplace control parameters****CAS 1341-49-7 ammonium bifluoride :**

1 mg/m³ with reference to the inhalable fraction (TRGS 900)

Commission Directive 2000/39/EC

Scope: Fluorides, inorganic

8 hours limit value: 2,5 mg/m³

CAS-No.: 7664-93-9 Sulphuric acid

Directive 2009/161/EU

Recommended indicative occupational exposure limit value for the European Union

A national occupational exposure limit value has to be set.

8 hours limit value: 0,05 mg/m³ (mist)

Concentrations of host and fibrous dusts in mg/m³

Permissible concentrations of airborne dust in mg/m³

Crystalline silica (including quartz, cristobalite, tridymite and other forms) respirable dust

Directive 2019/130/EC (EU6)

8 hours limit value: 0,1 mg/m³

DNEL**ammonium bifluoride**

worker: Long-term exposure- systemic effects, Inhalation: 2,3 mg/m³

worker: Acute exposure- systemic effects, Inhalation: 3,8 mg/m³

consumer: Long-term exposure – systemic, Inhalation: 0,045 mg/m³

consumer: Long-term exposure – systemic, oral: 0,015 mg/kg bw/day

PNEC**ammonium bifluoride**

freshwater: 1,3 mg/l

STP: 76 mg/l

Soil: 22 mg/kg

8.2. Exposure controls**Appropriate engineering controls**

Local and/or general exhaust ventilation is recommended. Provide a safety shower and eyewash station in the work area.

Personal protective equipment**Eye/face protection**

Tightly fitting safety glasses with side shields, face shield.

Hand, skin and body protection

Use protective equipment (e.g. acid-resistant protective gloves according to EN 374 - MSZ EN 374-2:2015 (e.g. nitrile rubber /material thickness: 0.35 mm/ - breakthrough time ≥ 8 h, acid-resistant protective clothing covering the entire body).

Respiratory protection

Not required for normal use. Where use generates intense dust, vapour or aerosol, use suitable respiratory protection with P2 filter.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

- (a) Physical state liquid , paste
- (b) Colour white
- (c) Odour characteristic
- (d) Melting point/freezing point not determined
- (e) Boiling point or initial boiling point and boiling range not determined
- (f) Flammability non-flammable (> 61 C)
- (g) Lower and upper explosion limit Not applicable (non-flammable / non-explosive liquid).
- (h) Flash point non-flammable (> 61 C)
- (i) Auto-ignition temperature not determined
- (j) Decomposition temperature not determined
- (k) pH ca. 3,5 - 4,5 (100%)
- (l) Kinematic viscosity not determined
- (m) Solubility no, or slightly soluble in water
- (n) Partition coefficient n-octanol/water (log value) Not applicable (mixture).
- (o) Vapour pressure not determined
- (p) Density and/or relative density 2,64 g/cm³
- (q) Relative vapour density not determined
- (r) Particle characteristics not applicable for fluid. It does not contain nanoparticles.

9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

May be corrosive to metals.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

No dangerous reaction in normal use.

10.4. Conditions to avoid

Heat and ignition sources

10.5. Incompatible materials

Strong acids, strong bases, metals.

10.6. Hazardous decomposition products

During combustion or thermal decomposition, hazardous vapors and gases - hydrogen fluoride, nitrogen oxides (NO_x), ammonia, sulfur oxides (SO_x) may be formed.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

- (a) acute toxicity: Harmful if swallowed

Components

Ammonium bifluoride

LD 50/oral/rat 130 mg/kg

Sulphuric acid

LD50 (oral, male and female rat): 2140 mg/kg (ECHA).

- (b) skin corrosion/irritation: The product causes burns to the skin and mucous membranes.

Ammonium bifluoride: Corrosive. Causes burns to skin and mucous membranes.

Sulphuric acid: Extremely corrosive and destructive to tissue (rabbit, IUCLID).

- (c) serious eye damage/irritation: Causes severe eye damage (ammonium bifluoride , sulfuric acid)

- (d) respiratory or skin sensitisation: Based on available data, the classification criteria are not met

Ammonium bifluoride: Does not cause hypersensitivity.

(e) germ cell mutagenicity: Based on available data, the classification criteria are not met

Ammonium bifluoride: In vitro and in vivo studies did not show mutagenic effects. Not classified as mutagenic.

(f) carcinogenicity: Based on available data, the classification criteria are not met

Ammonium bifluoride: Not classified as carcinogenic.

Quartz: The increased risk of lung cancer only occurs with inhalation of significant amounts of crystalline silica. The only increased risk of lung cancer has been found in individuals with silicosis.

(g) reproductive toxicity: Based on available data, the classification criteria are not met

Ammonium bifluoride: Not considered to be toxic to reproduction

(h) STOT-single exposure: Based on available data, the classification criteria are not met

(i) STOT-repeated exposure: Based on available data, the classification criteria are not met

Quartz: Prolonged and/or high

exposure to dust containing respirable crystalline silica can cause silicosis, a nodular pulmonary fibrosis caused by the deposition of fine, respirable, crystalline silica particles in the lungs. There is considerable evidence to support the fact that the increased risk of cancer is limited to people who already have silicosis. Workers should be protected from silicosis by complying with the prescribed occupational exposure limits and, where necessary, implementing additional risk management measures.

(j) aspiration hazard: Based on available data, the classification criteria are not met

Ammonium bifluoride: Corrosive to the respiratory tract.

11.2. Information on other hazards

No toxicological tests have been performed on the product. We do not yet have any information about symptoms.

Does not contain any endocrine disrupting components $\geq 0.1\%$.

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the preparation itself.

Based on available data, the classification criteria are not met

Components:

ammonium bifluoride:

LC50 (fish; 96 h): 421.4 mg/l.

EC50 (Trichoptera aquatic larvae, 96 h):

26-48 mg/l (US-EPA, read-across).

12.2. Persistence and degradability

Inorganic substance. The methods for determining biodegradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

Ammonium Bifluoride: May accumulate in water organizations.

12.4. Mobility in soil

Ammonium bifluoride:

Soil: The substance spreads in an aqueous environment.

12.5. Results of PBT and vPvB assessment

This mixture is not considered to be persistent, bioaccumulating nor toxic (PBT)., This mixture is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Endocrine disrupting properties

This substance/mixture does not contain ingredients that which have properties that damage the endocrine system 0.1% or higher levels of REACH point f) of Article 57 of the Regulation, (EU) 2017/2100 Commission Delegated Regulation or (EU) According to Commission Regulation 2018/605.

12.7. Other adverse effects

Harmful effect on aquatic organisms depends on the pH change.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in accordance with local regulations.

Contaminated packaging : In accordance with local and national regulations. Dispose of as unused product.

Do not allow into drains or water courses..

SECTION 14: Transport information

14.1. UN number or ID number 3264

14.2. UN proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Ammonium hydrogendifluoride, Sulphuric acid).

14.3. Transport hazard class(es) 8, C1

Label(s): 8

Hazard identification number: 80

Road Tunnel Restrictions: E

Transport category (1.1.3.6.): 2

14.4. Packing group II

Packing instructions: P001 – IBC02; MP15

Limited Quantity (LQ): 1 liter

Discounted quantity: E2

Tank transport: L4BN – TU42, AT vehicle

14.5. Environmental hazards No

14.6. Special precautions for user Corrosive liquid

Special requirements: 274 – V12

14.7. Maritime transport in bulk according to IMO instruments Not applicable

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

According to the local regulation.

15.2. Chemical safety assessment

Chemical safety assessment has not been carried out

SECTION 16: Other information**LIST OF RELEVANT H-PHRASES IN SECTION 3****H-Phrases**

H290 May be corrosive to metals.

H301 Toxic if swallowed

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H315 Causes skin irritation

H318 Causes serious eye damage

H319 Causes serious eye irritation

Data Sources:

The previously-classified hazardous materials list

Internet database of chemical substances

Safety data sheets of components

Abbreviations:

Acute Tox.	Acute Toxicity
Skin Corr.	Skin Corrosion
Skin Irrit.	Skin irritation
Eye Dam.	Eye Damage
Eye Irrit.	Eye Irritation
Met. Corr.	Metal Corrosion

SCL: Specific Concentration limit

EEA / EGT	The European Economic Area
EEC / EGK	European Economic Community
EC / EK	European Community
EU	European Union
CAS	Chemical Abstracts Service
ECHA	The European Chemicals Agency
UN / ENSZ	United Nations
REACH	Registration, Evaluation, Authorisation and restriction of Chemicals
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
ADR	Accord relatif au transport international des marchandises Dangereuses par Route
RID	Règlement international concernant le transport des marchandises dangereuses par chemin de fer
ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
IMDG	International Maritime Code for Gangerous Goods
IMO	International Maritime Organization
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
bw kg / ttkg	body weight in kilograms
EN	European Norm / European Standard
OECD	Organisation for Economic Co-operation and Development
EPA	The Environmental Protection Agency
EC ₅₀	Effective concentration 50 %
EC...	Effective concentration ... %
EbC ₅₀	EC ₅₀ value measured on algal biomass
ErC ₅₀	The concentration at which a 50 % inhibition of growth rate is observed
LC ₅₀	Lethal Concentration 50 %
LD ₅₀	Lethal dose 50 percent
LOAEL	Lowest observable adverse effect level
LOEC	Lowest Observed Effect Concentration
NOAEC	No observable adverse effect concentration
NOAEL	No observable adverse effect level
NO NOEC	No Observed-effect concentration
HPLC	High Performance Liquid Chromatography
RAC	The Committee for Risk Assessment
BCF / BKF	Bioconcentration factor
log K _{OW} / log Pov	Logarithm of the partition octanol-water.
K _{OC}	Partition coefficient of organic carbon
PBT	Persistent, Bioaccumulative, Toxic
vPvB	very Persistent, very Bioaccumulative
POP	Persistent Organic Pollutant
EPC / EPT	The European Parliament and the Council

This product Safety Data Sheet provides health, safety, and regulatory information. The information contained in this Safety Data Sheet is based on data available to us at the date of issue , and is provided in good faith, and believed to be accurate and reliable at the date of issue, however, no warranty, express or implied is provided. The product is to be used in applications consistent. For any other uses, exposures should be evaluated so that the appropriate handling practices and training programs can be established to ensure safe working conditions and operations. It is the buyer's/user's responsibility to satisfy itself that the product is suitable for the intended use, and to ensure that its activities comply with all federal, state, provincial, or local laws and regulations. Regulatory requirements are subject to change and may differ between European Member States and Nations. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.

