Safety Data Sheet according to Regulation (EC) No 830/2015

Date of Compilation/Revision: 21.09.2017.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers: Glass Etching Paste
Type of substance: CLP Mixture
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:
Pentacolor Ltd.
1103 Budapest, Gyömrõi út 86.
tel.: +36-1-260-7477
fax: +36-1-262-1345
e-mail: info@pentacolor.hu
For product safety information please contact: info@pentacolor.hu
1.4 Emergency telephone number:
Egészségügyi Toxikológiai Tájékoztató Szolgálat
Address: 1096, Budapest, Nagyvárad tér 2., Hungary
tel: 06/80/20 11 99 (green number), 06/1/ 476 64 64 (during working hours)

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture: Classification according to Regulation (EC) No 1272/2008
Acute Tox. 4 H302 Harmful if swallowed
Skin Corr. 1B H314 Causes severe skin burns and eye damage

2.2. Label elements:
Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms:

Signal Word: Danger

Hazard Statements:
H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage

Precautionary Statements
P102 Keep out of reach of children
P264 Wash the hands thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P330 Rinse mouth

Hazardous components which must be listed on the label:
ammonium bifluoride
2.3 Other hazards:
The ingredients are not PBR or vPvB substances.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture
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
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, Skin Corr. 1B H314
Registration number : 01-2119489180-38-xxxx

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.
Inhalation:
Move to fresh air. In case of shortness of breath, give oxygen. If unconscious place in recovery position and seek medical advice.
Eye contact:
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Skin contact:
Take off all contaminated clothing immediately. Rinse thoroughly with plenty of water. When symptoms persist, seek medical attention.
Ingestion:
If accidentally swallowed obtain immediate medical attention. Do NOT induce vomiting. Rinse mouth thoroughly with water and drink afterwards plenty of water.
4.2 Most important symptoms and effects, both acute and delayed:
Inhalation may cause pain and cough. Corrosive.
4.3 Indication of immediate medical attention and special treatment needed:
Treat symptomatically.

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
In case of fire, hydrogen fluoride, nitrogen oxides (NOx), ammonia may form.
5.3 Advice for firefighters
In the event of fire, wear self-contained breathing apparatus. Cool closed containers exposed to fire with water spray. Collect contaminated fire extinguishing water separately. You have to dispose of contaminated extinguishing water according to the regulations of the authorities.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes.
6.2 Environmental precautions
Do not allow to enter drains or watercourses.
6.3 Methods and materials for containment and cleaning up
Absorb with inert absorbent material (sand, sawdust), and place in container for disposal according to local regulations (see section 13).
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
Avoid contact with skin and eyes. Wear personal protective equipment. Do not inhale vapors / mist / dust. After contact with the product immediately eye wash and shower are required.
Precautions against fire and explosion:
The product is not flammable. Special measures are not required
Hygiene measures:
Keep away from food, drink and animal feedingstuffs.
Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Remove contaminated clothing immediately. work clothes must be kept separate. Avoid contact with eyes, skin, clothing and breathing of its vapours.
7.2 Conditions for safe storage, including any incompatibilities
Keep only in the original container. Use acid-proof flooring. Keep container tightly closed in a cool, dry, well-ventilated place. Keep away from food, drink and animal feedingstuffs.
7.3 Specific end uses
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
8.2 Exposure controls
Appropriate engineering controls
General protective and hygienic measures:
Avoid contact with skin and eyes.
Wash hands before breaks and after work.
Remove contaminated clothing. .
Keep away from foodstuffs, beverages and feed.
Personal protective equipment
Eye/face protection
Tightly fitting safety goggles (EN 166)
Skin protection
Wear long-lasting chemical protection gloves.The glove material has to be impermeable and resistant to the product / the substance / the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed
Proposed materials: Natural rubber, breakthrough time:> = 8 hours, Gloves Thickness: 0.5 mm

Nitrile rubber, breakthrough time:> = 8 hours, gloves thickness: 0.35 mm
butyl rubber, breakthrough time:> = 8 hours, gloves thickness: 0.5 mm
Poly (vinyl chloride), breakthrough time:> = 8 hours, gloves thickness: 0.5 mm

Body Protection

Protective clothing. The type pf protective equipment should be selected according to the concentration and the quantity of hazardous substances.

Respiratory protection

In case of powder or aerosol formation should be used respirator with an approved filter. (P2)

Environmental exposure controls

Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

(a) Appearance: viscous liquid Colour: white
(b) Odour: characteristic
(c) Odour threshold: not determined
(d) pH: ca. 4.7-5.3
(e) Melting point/freezing point: no data available
(f) Initial boiling point and boiling range: not determined
(g) Flash point: not applicable
(h) Evaporation rate: no data available
(i) Flammability (solid, gas): not applicable
(j) Upper/lower flammability or explosive limits: no data available
(k) Vapour pressure: no data available
(l) Vapour density: no data available
(m) Relative density: 2.45 g/cm3
(n) Solubility(ies): no, or slightly soluble in water
(o) Partition coefficient: n-octanol/water: no data available
(p) Auto-ignition temperature: not determined
(q) Decomposition temperature: not determined
(r) Viscosity: no data available
(s) Explosive properties: Product is not explosive.
(t) Oxidising properties. Product is not oxidizing

9.2 Other information

No further relevant information available.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions can be expected under normal handling and storage

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

In contact with strong bases ammonia is released. It reacts with metals and produces hydrogen. Contact with acid very toxic gases are formed

10.4 Conditions to avoid

Extreme temperatures and direct sunlight.The moisture must be avoided.

10.5 Incompatible materials

Strong acids, strong bases, metals.

10.6 Hazardous decomposition products

In case of fire, hydrogen fluoride, nitrogen oxides (NOx), ammonia may form.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

(a) acute toxicity: Harmful if swallowed
Components
CAS 1341-49-7 ammonium bifluoride
LD 50/oral/rat 130 mg/kg
(b) skin corrosion/irritation: Causes severe skin burns.
(c) serious eye damage/irritation: Causes severe eye damage
(d) respiratory or skin sensitisation: Based on available data, the classification criteria are not met
(e) germ cell mutagenicity: Based on available data, the classification criteria are not met
(f) carcinogenicity: Based on available data, the classification criteria are not met
(g) reproductive toxicity: Based on available data, the classification criteria are not met
(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
(j) aspiration hazard: Based on available data, the classification criteria are not met
Components:
Ammonium bifluoride:
Sensitization: sensitization is not known
Carcinogenicity: Not classified as carcinogenic
Mutagenicity: Not classified as mutagenic
Reproductive toxicity: Not regarded as reproductive toxicant
STOT-single exposure: Based on available data, the classification criteria are not met
STOT-repeated exposure: Based on available data, the classification criteria are not met
aspiration hazard: Corrosive to the respiratory tract.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity
There are no data available on the preparation itself
Components:
Ammonium bifluoride:
LC50: 422 mg/l (Salmo gairdneri; 96 h)
EC50: 10,5 mg/l (Daphnia magna; 96 h)
EC50: 26 mg/l (Daphnia magna; 48 h)
EC50: 81 mg/l (algae; 96 h) Marine water
EC50: 43 mg/l (algae; 96 h) Fresh water
Other informations:
Ammonium bifluoride:
Chronic toxicity fish
NOEC: 4 mg/l (Oncorhynchus mykiss; 21 d)
Chronic toxicity – invertebrates
NOEC: 8,9 mg/l (Daphnia magna; 21 d)
Acute toxicity fish
LC0: 316 mg/l (Danio rerio); 96 h)
Toxicity to daphnia and other aquatic invertebrates organizations: no data
Bacteria: EC50: 2394 mg / l (activated sludge)
12.2 Persistence and degradability
Inorganic substance. The methods for determining biodegradability are not applicable to inorganic substances.
12.3 Bioaccumulative potential
Ammonium Bifluoride: Accumulate in water organizations..
12.4 Mobility in soil
No further relevant information available.
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 Other adverse effects
Harmful effect on aquatic organisms depends on the pH change.
Do not allow product to reach ground water, water course or sewage system

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 3264
14.2. UN proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Ammonium hydrogendifluoride solution).
14.3. Transport hazard class(es) 8, C1
Label(s): 8
Road Tunnel Restrictions: E
Transport category (1.1.3.6.): 2 (max. 333 liter)
Limited Quantity (LQ): 1 liter
14.4. Packing group II
14.5. Environmental hazards No
14.6. Special precautions for user Corrosive liquid.
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable to the product being shipped.

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.
Restrictions according to REACH Annex XVII.: The ingredients are not listed
List of substances subject to authorization (Annex XIV.): The ingredients are not listed
15.2 Chemical Safety Assessment
Chemical safety assessment has not been carried out

SECTION 16. OTHER INFORMATION

Data Sources:
The previously-classified hazardous materials list
Internet database of chemical substances
Safety data sheets of components

The classification was prepared according to the 1272/2008/EK Regulation:
Acute Tox. 4 H302 based on calculation method
Skin Corr. 1B H314 based on calculation method

LIST OF RELEVANT H-PHRASES IN SECTION 3

H-Phrases

H301 Toxic if swallowed
H314 Causes severe skin burns and eye damage

Abbreviations:

Acute Tox. 3 Acute Toxicity. Category 3
Skin Corr. 1B Skin Corrosion, Category 1B

EK / EU European community/European union
EGK European Economic Community
DNEL Derived No Effect Level
PNEC Predicted No Effect Concentration
CLP Regulation on Classification, Labelling and Packaging of Substances and Mixtures /
CAS Chemical Abstracts Service
UN / ENSZ United Nations
ADN Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route
RID Réglement international concernant le transport des marchandises dangereuses par chemin de fer
IMDG International Maritime Code for Gangerous Goods
MARPOL International Convention for the Prevention of Pollution From Ships
IBC Intermediate Bulk Container
IATA International Air Transport Association
ICAO International Civil Aviation Organization
PBT Persistent, Bioaccumulative, Toxic
vPvB very Persistent, very Bioaccumulative

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.