

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Product name: TA Flux
 Application: To be applied on the root side of welds to prevent oxidation
 Producer/Supplier: TA Chemistry AB
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2. HAZARDS IDENTIFICATION



Irritating

The product gives strong irritation to eyes, skin and respiratory organ. Prolonged and repeated inhalation of respiratory silica can cause chronic silicosis. Prolonged and repeated inhalation of manganese dioxide can cause damage to the central nerve system.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a preparation of substances.

Ingredients	Weight %	CAS#	EINECS#	Hazard classification	TLV TWA (ppm)
Quartz (SiO ₂)	35-45	14808-60-7	238-878-4	-	0.025 mg/m ³
Calcium hydroxide Ca(OH) ₂	25-35	1305-62-0	215-137-3	Xi; R36/37/38	5 mg/m ³
Titanium dioxide(TiO ₂)	10-20	13463-67-7	236-675-5		10 mg/m ³
Calcium fluoride (CaF ₂)	7-15	7789-75-5	232-188-7		
Manganese dioxide (MnO ₂)	9-10	1313-13-9	215-202-6	Xn; R20/22	0.2 mg/m ³
Iron (Fe)	<1	7439-89-6	231-096-4	-	-

Hazard Classification acc. to EC Directive 67/548/EEC, for R-phrases see heading 16. Threshold Limit Values according to ACGIH 2008

4. FIRST AID MEASURES

Ingestion: Rinse the mouth with water. Do not induce vomiting. Seek medical assistance.
 Inhalation: Rinse nose and mouth with water. Blow one's nose. Supply fresh air and keep victim warm and calm. Give artificial respiration or oxygen if victim is breathing irregularly or breathing has stopped. If irritation persists seek medical assistance.
 Eye contact: Remove any contact lenses. Rinse open eyes in running water for at least 15-30 minutes. Keep eyelids open. Obtain medical assistance immediately. Continue to rinse the eyes under transport to eye doctor.
 Skin contact: Rinse skin with plenty of water. Remove contaminated clothing and shoes. Wash off immediately using water and soap and rinse well. If irritation persists seek medical assistance.
 General Information: Seek medical care even if only smaller troubles occur. Never give fluid if victim is unconscious. Keep victim warm and calm.

5. FIRE FIGHTING MEASURES

Extinguishing media: Foam, carbon dioxide, powder or sand. The product is non-flammable.
 Personal protection: Use breathing apparatus with a gas filter type B and a dust filter type P3, and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal protection: Keep good ventilation. Wear gas mask, gloves, eye protection and skin protection (see section No. 8). Work in good ventilation or use gas mask.
 Environmental protection measures: Prevent spillage from entering sewage or public waters

Leak/spill response: Pick up spill mechanically. Clean without deploy dust. Avoid dry sweeping and use water or vacuum system to prevent formation of dust. Collect in suitable container and send for destruction. Flush with plenty of water. At larger leakage contact rescue.

7. HANDLING AND STORAGE

Handling: The premises must be well-ventilated or with local exhaust. Mix the product in the original can to prevent formation of dust. Dont use other container/can. Use personal equipment (see section No. 8). Avoid direct contact or inhalation of the product. Do not eat, drink or smoke in the premises. Eyewash and quick-drench shower facilities must be available at the premises.
 Storage: Store packages dry and cool.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls: Only use the product in a well-ventilated area or with local exhaust. Always mix the product in the original can to prevent formation of dust. There must be an eye shower and an emergency shower. Wash hands and face before all meals and at the end of each working day. Do not eat, drink and smoke.

Personal protection:

- Use gas mask with filter of type P3.
- Use face shield, gloves and protective clothing.

 Threshold Limit Values according to ACGIH: refer to section 3

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Fine powder
 Colour: Grey
 Odour: Odourless
 Solubility in water: Slightly soluble
 pH: 10

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
 Conditions to avoid: Avoid formation of dust - always mix the product in the original can.

11. TOXICOLOGICAL INFORMATION

Eye contact: Dust and splash of solution gives strong irritation, redness and pain. Risk for corrosive damage.
 Skin contact: Gives irritation. Prolonged skin contact could give blisters and wounds especially at wet skin.
 Inhalation: Inhalation of dust or mist causes coughing and irritation in nose and bronchi. Inhalation may be damaging to the lungs. Prolonged and repeated inhalation of respiratory Silica can cause chronic silicosis. Prolonged and repeated inhalation of manganese dioxide can cause damage to the central nerve system. Dust of manganese oxide can cause impaired fertility among men.
 Ingestion: Gives corrosive damage with burning pain in mouth and throat, possibly severe general effect and damage to the stomach and vomiting.
 Chronically effects: Prolonged inhalation of respiratory silica which exceeds the limit TLV value can cause chronic silicosis. Some studies show that the risk for cancer grows at exposure to silica. It's unclear if the risk is only connected to the people that have developed silicosis or not. IARC International Agency for Research on Cancer) has classified crystalline silica dust exposure as a possible human carcinogen substance.

12. ECOLOGICAL INFORMATION

Ecotoxicity: The product is not classified as dangerous to the environment.
 Information: Ecotoxicity data has not been established to this product. The information is based on knowledge about the components and the ecotoxicity data among similar products.

13. DISPOSAL CONSIDERATIONS

Spillage and residues must be disposed as hazardous waste. Do not allow into piping. Contact local authorized and licensed waste disposal agency and ministry of environment for instructions and procedures for approved disposal

14. TRANSPORT INFORMATION

Road and railroad (ADR/RID)
Not classified as dangerous goods
Sea (IMDG)
Not classified as dangerous goods
Air (IATA-DGR)
Not classified as dangerous goods

15. REGULATORY INFORMATION

Read and understand the manufacturer's instructions, your employer's safety practices and the health and safety instructions on the label. Observe any federal and local regulations. Take precautions and protect yourself and others. According to EC Directive 1999/45/EC this product is classified with the following risk and safety phrases

Classifications /
Marking :
Symbols:



Irritating

Risk phrases: R36/37/38 Irritating to eyes, respiratory system and skin.
Safety phrases: S7 Keep container tightly closed.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 38 In case of insufficient ventilation, wear suitable respiratory equipment.
Ingredients: Quartz 35-45%, Calciumhydroxide 25-35%, Titan dioxide 10-20%, Calcium fluoride 7-15%, Manganese dioxide 9-10%, Iron <1%

16. OTHER INFORMATION

Symbols and risk phrases under section 3:

Xn Harmful R 20/22 Harmful by inhalation and if swallowed
Xi Irritant R 36/37/38 Irritating to eyes, respiratory system and skin.

TA Chemistry AB requests the users of this product to study this Safety Data Sheet (S.D.S.) and become aware of product hazards and safety information. To promote safe use of this product a user should:

- notify its employees, agents and contractors of the information on this S.D.S and any product hazards/safety information.
- furnish this same information to each of its customers for the product
- request such customers to notify employees and customers for the same product hazards and safety information. The information herein is given in good faith and based on technical data that TA Chemistry AB believes to be reliable. Since the conditions of use is outside our control, we assume no liability in connection with any use of this information and no warranty, expressed or implied is given. Contact TA Chemistry AB for more information.

This Safety Data Sheet has been revised due to modification(s) to paragraph(s): 3 (weight & of iron) and 15 (ingredients).