

ULTIMATE

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Identification of the preparation

Commercial name:	Ultimate C, Ultimate X, Ultimate R	
Product description:	Metal sulphides based compounds	
Registration number:	N.A.	
CAS Registry Number:	Potassium Aluminium Fluoride	14484- 69- 6
	Iron disulfide	1309- 36- 0
	Molybdenum disulfide	1317- 33- 5
	Graphite	7782- 42- 5
EINECS Number:	N.A.	
Molecular weight:	N.A.	
Chemical formula:	N.A.	

1.2 Use of the preparation

Use of the substance: Abrasive materials, composite materials, industrial applications (industry brakes).

1.3 Contact numbers for further safety details:

Supplier/ Manufacturer: ITAPROCHIM S.r.l.
 Via Carlo Bianconi 8/A, 20139 Milano (Italy)
 Tel. +390257303726 Fax +39 0256817644
 e-mail: quality@itaprochim.it

1.4 Emergency telephone number

Poison control centre– Milano Tel. 39 02 66101029 (Available 24h/24)
 Itaprochim: Tel. +39 0257303726 (Available during office hours: 9.00 – 18.00)

2. HAZARD IDENTIFICATION

2.1 Classification of the preparation

The product is not classified as dangerous according to CE1272/ 2008 and Directive 67/548/ CEE.

See the section 16 for the full text of the R Phrases.

Physical/ chemical hazard:	Not applicable
Human health hazards:	Not applicable
Environmental hazards:	Not applicable
For the full text of risk phrases:	See the section 16
Major adverse effects:	See the sections 9 to 12

2.2 Label Elements

Hazard pictograms:	None
Warnings:	None
Hazard:	None
Safety advice:	None

2.3 Other hazard

None

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Name	CAS	EINECS	Class. 67/ 548/ CEE	Class. CE 1272/ 2008	Conc.
Potassium Aluminium Fluoride	14484- 69- 6	238-485-8	Not classified	Not classified	1- 50 %
Iron disulphide	1309-36-0	1309-36-0	Non classified	Not classified	1- 25 %
Molybdenum disulphide	1317-33-5	215-263-9	Non classified	Not classified	25- 50 %
Graphite	7782-42-5	231-955-3	Non classified	Not classified	1- 25 %

4. FIRST AID MEASURES

4.1 Description of first measure

- Ingestion:	Rinse mouth with water. Give medicinal activated charcoal with water. Never give anything by mouth to an unconscious person.
- Inhalation:	Remove person from contaminated area. If symptoms due inhalation persists seek medical attention.
- Skin contact:	Remove contaminated clothing. Wash skin with soap and copious amount of water.

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- Eyes contact: Flush eyes with plenty of water keeping eyelids well opened. If any symptoms persist, seek medical attention.

5. FIRE FIGHTING MEASURES

- 5.1 Extinguishing media** Preferably use CO₂, dry powder.
- 5.2 Special hazards arising from the substance** During fire toxic gases may be generated by thermal decomposition or combustion.
- 5.3 Advice for fire fighters** Persons employed to fight the fire have to dress suitable protection for breathing tracts (self- contained breathing apparatus).

6. MEASURE IN CASE OF ACCIDENTAL SPILLAGE

- 6.1 Personal precautions, protective equipment and emergency procedures** Use suitable individual protection.
- 6.2 Environmental precautions** Do not allow product enter drains, surface and ground water.
- 6.3 Methods and material for containment and cleaning up.** Carefully collect the material with mechanical media avoiding dust formation and develop; if possible collect material using vacuum. Put the material in suitable containers for re- use or for disposal in compliance with law.
- 6.4 Reference to other sections** For more information on protective measures refer to section 8 and 13.

7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Avoid dust inhalation and eye and skin contact . Work in ventilated area. Handling in places with suitable hoods or equivalent system for dust collection.
- 7.2 Condition for safe storage, including any incompatibilities** Store in fresh, dry and well ventilated area. Store far from heat sources. Avoid the contact with water, strong oxidant agents and acid.
- 7.3 Specific end uses** Not applicable.

8. EXPOSURE CONTROL/ PERSONAL PROTECTION

- 8.1 Controls parameters** Exposure limits (A.C.G.I.H 1999) TLV- TWA: All components are listed on EINECS Inventory.
- 8.2 Exposure controls** N.A.
- 8.3 Individual protection** Eyes: Safety goggles
Hands: Rubber or PE gloves.
- 8.4 Specific hygiene rules** Do not eat, drink or smoke during the handling. Wash hands after using the material. Take off contaminated clothes. Wash hands after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical.

- Appearance: Solid, fine powder.
- Odour: Odourless or lightly sulphurous.
- Colour: Grey/ black
- Odours threshold: N.A.
- pH: N.A.
- Melting point/ freezing point: 540/ 600 °C
- Initial boiling point and boiling range: N.A.
- Flash point: N.A.
- Evaporation rate: N.A.
- Flammability: N.A.
- Upper/ lower flammability or explosive limits: N.A.
- Vapour pressure: N.A.
- Specific gravity: Approx 3.3 g/ cc
- Water Solubility: 2 gr/ l at 25 °C
- Partition coefficient: N.A.
- Auto- ignition temperature: N.A.
- Decomposition temperature: N.A.
- Viscosity: N.A.
- Explosive properties: N.A.
- Oxidising properties: N.A.
- Dissociation constant: N.A.

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9.2 Other information

None

10. STABILITY AND REACTIVITY**10.1 Reactivity**

The product is stable under normal condition.

10.2 Chemical stability

The product is stable under normal condition.

10.3 Possibility of hazardous reaction

Not available.

10.4 Conditions to avoidHigh temperatures. It decompose at 350 °C forming SO_x, etc.**10.5 Incompatible materials**In contact with acids it forms toxic fume or SO_x. May react with strong acid to liberate hydrogen fluoride or hydrofluoridric acid which are toxic and corrosive. It can react with strong oxidants. In presence of air, at high temperatures, it burns liberating SO_x, CO_x and MoO₃ and HF.**10.6 Hazardous decomposition products**

Hydrogen sulphide, sulphur oxides, hydrogen fluoride.

11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

Acute toxicity: LD50 (oral rat) > 2000 mg/ kg

Chronic toxicity: Not available.

12. ECOLOGICAL INFORMATION

No experimental data available. Use according to normal conditions and avoid dispersing the product in the environment.

12.1 Toxicity

N.A.

12.2 Persistence and degradability

N.A.

12.3 Bio accumulative potential

N.A.

12.4 Mobility in soil

N.A.

12.5 Results of PBT and vPvB assessment

N.A.

12.6 Other adverse effects

N.A.

13. CONSIDERATION ON WASTE DISPOSAL**13.1 Methods waste treatment**Surplus and waste have to be handled according the precautions and individual protective measures as indicated in 8th section. Send to companies authorized in disposal according to national and local regulation. Ingredients are not listed on RCRA P and U series Hazardous Waste.**14. TRANSPORT INFORMATION**

The product is not subject to regulation.

14.1 UN- Number

N.A.

14.2 UN proper shipping name

N.A.

14.3 Transport hazard class (es)

ADR/ RID/ AND: N.A.

Code IMDG: N.A.

IATA/ ICAO: N.A.

14.4 Packaging group

N.A.

14.5 Environmental Hazards

N.A.

14.6 Special precautions for user

N.A.

14.7 Transport in bulk according to

N.A.

Annex II of MARPOL 73/ 78 and IBC Code

N.A.

15. REGULATORY INFORMATION**15.1 Rules and legislation on health, safety and environmental specifications for the substance**

It does not require hazardous labelling in accordance with EEC Directives.

15.2 Chemical Safety Assessment

N.A.

16. OTHER INFORMATION

Information contained in the present Material Data Sheet are based on our knowledge on editing data. They have to be read as a guide for safe product handling, use and storage in known industrial applications, but they aren't a guarantee of specific properties and no guarantee can be released for any damage, direct or not direct, deriving from its use.

This Card doesn't relief user to assure himself to be under no obligation different from those here above described and regulated for product holding and using, for which he is the only responsible for.

The Information Safety Sheet contents and format are in accordance with the European Directive 453/2010/UE

The obligation to send a material safety data sheet, according to CE n° 1907/2006 (REACH) Rules, art. 31.1, is related to substances and blends classified as dangerous only. Therefore, this document has to be considered exclusively as support to persons who handle the product, without assuming the same legal value of a safety data sheet.