

# Material Safety Data Sheet

1. <u>Product Identification:</u> <b>Product name:</b> ALUMINIUM REFINING FLUX <b>Manufacturer:</b> JIHLGUAN INTERNATIONAL TRADING CO.,LTD Informing department: Safety, Health and Environment(S.H.E.) Appearance and odour: white powder, odorless
2. <u>Composition</u> <b>Einecs no. CAS No. Substances Classification w/w%</b> 239-148-8 15096-52-3 Aluminium trisodium hexafluoride Xn;R20/22 T;R48/23/25 N;R51/53 2,5-10
3. <u>Hazards identification</u> Consider the recommended regulations and safety advice (see no.15) there no particular hazards for man and environment
4. <u>First aid procedures</u> In case of dust exposure INHALATION: in case of discomfort, remove to a ventilated area. If discomfort persists, consult a physician SKIN CONTACT: in case of burns with hot metal, rinse with plenty of cold water. If burn is severe, consult a physician EYE CONTACT: Flush eyes thoroughly with water, taking care to rinse under eyelids. If irritation persists, continue flushing for 15 minutes, rinsing from time to time under eyelids. If discomfort continues, consult a physician. INGESTION: Not applicable
5. <u>FIRE-FIGHTING MEASURES</u> <b>EXTINGUISHING MEDIA</b> Not a fire hazard unless in particle form. Suspensions of Refining Flux dust in air may pose a severe explosion hazard. A potential for explosion exist for a mixture of fine and coarse particles if at least 15% to 20% of the material is finer than 44microns(325mesh). Buffing and polishing generate finer material than grinding, sawing and cutting. Do not use water or halogenated extinguishing media. <b>HAZARDOUS COMBUSTION PRODUCTS:</b> Not applicable
6. <u>Accidental release measure</u> Avoid inhalation of and skin contact with any dust. Wear suitable respiratory protective equipment and gloves if exposure is considered to be like.
7. <u>Handling and storage</u> <b>HANDLING PRECAUTIONS:</b> Because of the risk of explosion, Refining Flux should be thoroughly dried. Use standard techniques to check metal temperature before handling. Hot manganese does not present any warning color change, exercise great caution, since the metal may be hot. For more information on the handling and storage of manganese, consult the following documents published by ALUMINIUM ASSOCIATION, -Guidelines for handling molten manganese -Recommendation for storage and handling of manganese powders and paste -Guidelines for handling manganese fines generated during various manganese fabricating operations <b>STORAGE CONDITIONS:</b> Not applicable.

<p>8. <u>Physical and chemical properties</u></p> <p>PH: Not applicable                      FLASHPOINT: Not applicable</p> <p>Boiling point: Not applicable              Autoignition temperature: Not applicable</p>
<p>9. <u>Stability and reactivity</u></p> <p>Stable (yes/no): Yes</p> <p>Conditions and material to avoid: In the form of particle, may explode when mixed with halogenated acids, halogenated solvents, bromates or ammonium nitrate.</p> <p>HAZARODOUS DECOMPOSITION PRODUCTS: in the form of particles, magnesium reacts with water, strong basic solutions, strong acidic solutions, halogenated acid (eg: hydrofluoric acid) producing flammable hydrogen gas.</p>
<p>10. <u>Toxicological information</u></p> <p>Routes of exposure:</p> <p>INHALATION: Yes                      INGESTION: No</p> <p>EYE CONTACT: No                      SKIN CONTACT: No              SKIN ABSORPTION: No</p> <p>ACUTE EFFECTS:</p> <p>INHALATION: Solid manganese does not present an inhalation hazard</p> <p>SKIN CONTACT: Skin contact with hot metal can cause burns</p> <p>EYE CONTACT: Manganese dust can irritate the eyes (mechanical abrasion)</p> <p>INGESTION: Not applicable</p> <p>MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE TO THE PRODUCT: Not applicable</p>
<p>11. <u>Ecological information</u></p> <p>Refining Flux, do not present any hazard for environment because are not biologically available. Manganese can be recycled.</p> <p>General notes: water hazard class (self classified)</p> <p>S 29: Do not empty into drains. S=safety note</p>
<p>12. <u>Disposal</u></p> <p>Recycle. Manganese in the form of particle may be reactive. Its hazardous characteristics, including fire and explosion, should be determined prior to disposal. Dispose of waste in accordance with federal, state, or local regulations.</p>
<p>13. <u>Transportation information</u></p> <p>TDGR: not regulated      CFR 49: Not regulated      IMO: Not regulated      ICAO: not regulated</p>
<p>14. <u>Regulatory information</u></p> <p>WARNING SYMBOL: None</p> <p>WARNING WORD: None</p> <p>RISK PHRASES: None</p> <p>SAFETY PHRASES: None</p>
<p>15. <u>Further information</u></p> <p>Although the information in this SDS was obtained from sources that we believe to be reliable, it cannot be guaranteed. In addition, this information may be used in a manner beyond our knowledge or control. The information is therefore provided for advice purpose only, without any representation or warranty express or implied.</p> <p>Department issuing MSDS: SHE manager Mr. YAN XI</p>

Constitutor: YAN XI

Ratifier: JOHN

Issued Date: 1<sup>st</sup> August, 2011

Signature: YAN XI

JHIHGUAN INTERNATIONAL TRADING CO.,LTD