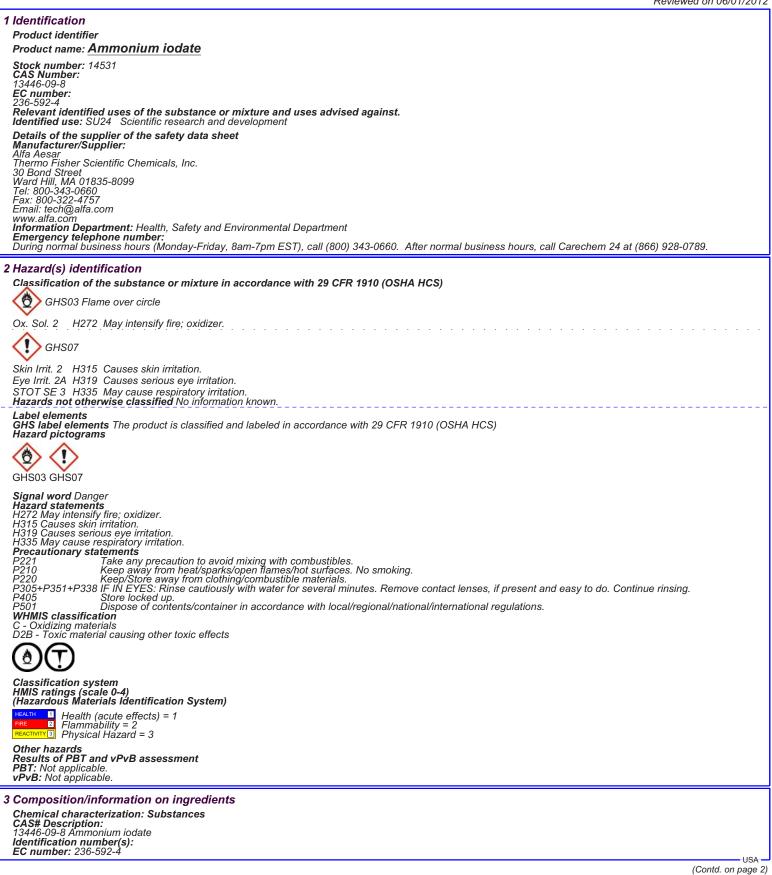


# Safety Data Sheet per OSHA HazCom 2012



#### Product name: Ammonium iodate

(Contd. of page 1)

4 First-aid measures Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. For safety reasons unsuitable extinguishing agents Halocarbon extinguisher Special hazards arising from the substance or mixture This substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. If this product is involved in a fire, the following can be released: Hydrogen iodide (HI) If this product is involved in a fire, the Hydrogen iodide (HI) Nitrogen oxides (NOx) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. 6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Ensure adequate ventilation. Methods and material for containment and cleaning up: Ensure adequate Prevention of secondary hazards: Acts as an oxidizing agent on organic materials such as wood, paper and fats Keep away from combustible material. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. 7 Handling and storage Handling Precautions for safe handling **Precautions for safe handling** Handle under dry protective gas. Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. **Information about protection against explosions and fires:** Substance/product can reduce the ignition temperature of flammable substances. This substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Conditions for safe storage, including any incompatibilities Storage Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from flammable substances. Store away from reducing agents. Do not store with organic materials. Store away from metal powders. Store away from water/moisture. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert das. Store under dry inert gas. This product is moisture sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameter Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves

(Contd. on page 3)

#### Ammonium iodate -I - - - 4 P

Product name: Ammonium iodate		
Check protective gloves prior to each u The selection of suitable gloves not onl <b>Penetration time of glove material (ir Eye protection:</b> Safety glasses <b>Body protection:</b> Protective work cloth	ly depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. n minutes) Not determined	(Contd. of page 2)
9 Physical and chemical propertie	S	
Information on basic physical and cl General Information Appearance: Form:		
Color:	White	
Odor: Odor threshold:	Odorless Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	150 °C (302 °F) Not determined Not determined Contact with combustible material may cause fire. Not determined Not determined Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	Not determined. Not determined Not determined Not applicable. 3.309 g/cm <sup>3</sup> (27.614 lbs/gal) Not determined. Not applicable.	
Solubility in / Miscibility with Water at 15 °C (59 °F): Partition coefficient (n-octanol/water Viscosity: dynamic: kinematic: Other information	Not a <sup>'</sup> pplicable. 20.6 g/l <b>):</b> Not determined. Not applicable. Not applicable. No further relevant information available.	
10 Stability and reactivity Reactivity May intensify fire; oxidizer. Chemical stability Stable under recom Thermal decomposition / conditions Possibility of hazardous reactions Reacts with reducing agents Reacts with reducing agents Reacts with flammable substances Conditions to avoid No further relevan Incompatible materials: Flammable substances Reducing agents Water/moisture Oxidizing agents Metal powders Hazardous decomposition products: Hydrogen iodide (HI) Nitrogen oxides		
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for Skin irritation or corrosion: Causes se Eye irritation or corrosion: Causes se Sensitization: No sensitizing effects kn Germ cell mutagenicity: No effects kn	skin irritation.	

Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

## 12 Ecological information

Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment.

(Contd. on page 4)

#### Product name: Ammonium iodate (Contd. of page 3) Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available 13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. 14 Transport information UN-Number DOT, IMDG, IATA UN1479 UN proper shipping name DOT Oxidizing solid, n.o.s. (Ammonium iodate) OXIDIZING SOLID, N.O.S. (Ammonium iodate) ĨMDG, IATA Transport hazard class(es) DOT 5.1 Oxidising substances. 5.1 5.1 (O2) Oxidizing substar 5.1 Class Label Class (O2) Oxidizing substances Label IMDG, IATA 0 Class 5.1 Oxidising substances. Label 51 Packing group DOT, IMDG, IATA IIEnvironmental hazards: Not applicable. Special precautions for user Warning: Oxidizing substances Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT Marine Pollutant (DOT): No UN "Model Regulation": UN1479, Oxidizing solid, n.o.s. (Ammonium iodate), 5.1, II 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS labe! elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms (!) Ø GHS03 GHS07 Signal word Danger Hazard statements Hazard statements H272 May intensify fire; oxidizer. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P221 Take any precaution

 P221
 Take any precaution to avoid mixing with combustibles.

 P210
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

 P220
 Keep/Store away from chothing/combustible materials.

 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

 P405
 Store locked up.

 P501
 Dispose of contents/(contents/cont P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

 P501
 Dispose of contents/container in accordance with local/regional/national/International regulations.

 National regulations
 All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

 All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL).

 SARA Section 313 (specific toxic chemical listings) Substance is not listed.

 California Proposition 65

 Prop 65 - Chemicals known to cause cancer Substance is not listed.

 Prop 65 - Developmental toxicity, female Substance is not listed.

 Prop 65 - Developmental toxicity, male Substance is not listed.

 Information about limitation of use: For use only by technically qualified individuals.

 Other regulations, limitations and prohibitive regulations

 Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.

 The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

market and use must be observed. Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## Product name: Ammonium iodate

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USA

#### 16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) MDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances LCSO: Lethal concentration, 50 percent LDSO: Lethal concentration, 60 percent LDSO: Lethal dose, 50 percent LDSO: Lethal dose, 50 percent LDSO: Comparitonial Asteriate and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSH: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA)