

# Safety Data Sheet per OSHA HazCom 2012

1 Identification	
Product identifier Product name: <b>Ethyltriphenylphosphonium iodide</b>	
Stock number: A17533, L02692 CAS Number:	
4736-60-1 EC number:	
225-245-2 <b>Relevant identified uses of the substance or mixture and uses advised against.</b> Identified use: SU24 Scientific research and development	
Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet	
Manufacturer/Supplier: Alfa Aesar	
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
Ward Hill, MA 01835-8099 Tel: 800-343-0660 Four 900-202	
Fax: 800-322-4757 Email: tech@alfa.com www.alfa.com	
Information Department: Health, Safety and Environmental Department Emergency telephone number:	
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-	0789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) GHS06 Skull and crossbones	
Acute Tox. 3 H301 Toxic if swallowed.	
GHS05 Corrosion	
Eye Dam. 1 H318 Causes serious eye damage. GHS07	
$\checkmark$	
Acute Tox. 4 H312 Harmful in contact with skin. STOT SE 3 H335 May cause respiratory irritation. Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS05 GHS06	
Signal word Danger Hazard statements	
H301 Toxic if swallowed. H312 Harmful in contact with skin.	
H318 Causes serious eye damage. H335 May cause respiratory irritation. <b>Precautionary statements</b>	
P261 Avoid breathing dust/fume/gas/mist/vapours/sprav	
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/	~
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsin P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	g.
WHMIS classification D1A - Very toxic material causing immediate and serious toxic effects	
D2B - Toxic material causing other toxic effects	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
(Hazardouš Materials Identification System)         Health       Accute       effects       = 2	
FIRE     I     I       REACTIVITY []     Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment	
PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances CAS# Description:	
4736-60-1 Ethyltriphenylphosphonium iodide	(Contd. on page 2)
	USA

Product name: Ethyltriphenylphosphonium iodide

## Identification number(s): EC number: 225-245-2

#### 4 First-aid measures

#### Description of first aid measures

General information Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration.

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 Do not induce vomiting; immediately call for medical help. Information for doctor Most important symptoms and effects, both acute and delaved No further relevant information ave 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. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Phosphorus oxides Hydrogen indide (HII)

Hydrogen iodide (HI) 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

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: Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation.

**Prevention of secondary hazards:** No special measures required. **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 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: No information known.

Conditions for safe storage, including any incompatibilities

Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Store in the dark. Store away from water/moisture. Further information about storage conditions:

This product is hygroscopic. Store under dry inert gas. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. Protect from exposure to light. 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 parameters Components with limit values that require monitoring at the workplace: Not required. 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. 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 Impervious gloves

(Contd. of page 1)

Product name: Ethyltriphenylphosp	honium iodide	
Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Penetration time of glove material (in minutes) Not determined Eye protection: Tightly sealed goggles Body protection: Protective work clothing.		
9 Physical and chemical properties	3	
Information on basic physical and ch General Information Appearance: Form: Color:		
Odor:	Not determined	
Odor threshold: pH-value:	Not determined. Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	164-169 °C (327-336 °F) Not determined Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Not determined Not determined Not determined Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water) Viscosity: dynamic: kinematic: Other information	Product does not present an explosion hazard. Not determined Not applicable. Not determined. Not applicable. Soluble : Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Water/moisture Light Hazardous decomposition products: Carbon monoxide and carbon dioxide Phosphorus oxides (e.g. P205) Hydrogen iodide (HI)		
11 Toxicological information         Information on toxicological effects         Acute toxicity:         Harmful in contact with skin.         Fatal if swallowed.         Danger through skin absorption.         LDVLCSO values that are relevant for classification: No data         Skin irritation or corrosion: Irritant to skin and mucous membranes.         Eye irritation or corrosion: Losses serious eye damage.         Sensitization: No sensitizing effects known.         Germ cell mutagenicity: No effects known.         Germ cell mutagenicity: No effects known.         Specific target organ system toxicity - repeated exposure: No effects known.         Specific target organ system toxicity - repeated exposure: No effects known.         Specific target organ system toxicity - repeated exposure: No effects known.         Subacute to chornic toxicity:         Priolonged exposure to iodidies may cause skin rash, running nose, headache and irritation of the mucous membranes. In severe cases the skin may show pimples, boils, redense, black and blue pols, hives and blisters. Iodides are readily diffused across the placenta.         Subacute to chornic toxicity:         The Registry of Toxic Effects of Chemical Substances (RTECS) reports the following effects in laboratory animals:         Behavioral - altered sleep time (including change in righting reflex).         Behavioral - altered sleep time (including change in righting reflex).         Behaviora		

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12 Ecological Information         Tacking         Tacking         Resource with the information available.         Resource with the possibility to information available.         De to information         De to information <th></th> <th>(contai of page</th>		(contai of page		
Waste traditional models       Recommendation: During state, local or national regulations to ensure proper disposal. Recommendation: During state, local or national regulations. Recommendation: During state, local or national regulations. Not not state	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 govern Do not allow undiluted product or large quantities to reach ground water, water Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.	mental permits. ° course or sewage system.		
UN-Number DOT, IMDG, IATA Transport hazard class(es) DOT Class Clas	Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	r disposal.		
DOT, IMDG, IATA     UN2211       UN proper shipping name     Toxic solids. organic. n.o.s. (Ethyltiphenylphosphonium iodide)       Transport hazard class(es)     Toxic solids. organic. n.o.s. (Ethyltiphenylphosphonium iodide)       DOT     Image: Solid	14 Transport information			
UN proper shipping name DOT       Toxic solids, organic, n.o.s. (Ethyltriphenylphosphonium iodide)         Transport hazard class(es)       Toxic Solids, organic, n.o.s. (Ethyltriphenylphosphonium iodide)         DOT       Image: Class (Class (Class)         Class (Class)       6.1 Toxic substances.         Label (Class)       6.1 (T2) Toxic substances.         Class (Class (Class)       6.1 (T2) Toxic substances.         Label (Class)       6.1 (T2) Toxic substances.         Class (Class)       6.1 (T2) Toxic substances.         Label (Class)       6.1 (T2) Toxic substances.         Class (Class)       6.1 (T2) Toxic substances.         Label (Class)       6.1 (T2) Toxic substances.         Class (Class)       6.1 (T2) Toxic substances.         Label (Class)       6.1 (T2) Toxic substances.         Class (Class)       6.1 (T2) Toxic substances.         Label (Class)       6.1 (T2) (T2) (T2) (T2) (T2) (T2) (T2) (T2)		1100011		
DOT       Toxic solids, organic, n.o.s. (Ethyltriphenylphosphonium iodide)         Transport hazard class(es)       Toxic Solid, ORGANIC, M.O.S. (Ethyltriphenylphosphonium iodide)         DOT       Image: Class cl		0112611		
Transport hazard class(es)         DOT         OC         OC         Class       6.1 Taxic substances.         Label       6.1         Class       6.1 (T2) Taxic substances         MIDG, IATA       6.1         OC       6.1         Class       6.1         Class       6.1         Class       6.1         Class       6.1         DOT, MIGG, IATA       0.1         Pecking group       0.1         DOT, MIGG, IATA       0.1         Port, MIGG, IATA       0.1         Marine Pollutant (DOT):       No         Port       Marine Pollutant (DOT):         Marine Pollutant (DOT):       No         UN "Model Regulatory information       Sciey, Fealth and enyinonmental regulationseles/instructure scient and easy to do. Co	DOT	Toxic solids, organic, n.o.s. (Ethyltriphenylphosphonium iodide) TOXIC SOLID, ORGANIC, N.O.S. (Ethyltriphenylphosphonium iodide)		
Label Class Label Class Label Class Label Class Cl	Transport hazard class(es) DOT			
Class Labol Labol MDG, IATA       6.1 (T2) Toxic substances         Class Label       6.1 (T2) Toxic substances         Class Label       6.1 (T2) Toxic substances.         Class       6.1 (T2) Toxic substances.         Label       6.1 (T2) Toxic substances.         DOT, MUDG, IATA       III         Packing group DOT, MUDG, IATA       III         Environmental hazards:       Not applicable.         Special precutions for user       Warning: Toxic substances         Transport In bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.       Toxic substances         Transport Additional Information:       007         Marine Pollutant (DOT):       No         UN "Model Regulation":       UN2811, Toxic solids. organic, n.o.s. (Ethyltriphenylphosphonium lodide), 6.1, III         15 Regulatory information       Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard statements         With Statements       Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard statements         With Over Danger Hazard statements       Safety, health and environmental regulations.         Marine Distread with skin, H317 Toxic substances is the product				
IMDC, IATA         Class       6.1 Toxic substances.         Label       6.1         Packing group       III         Environmental hazards:       Not applicable.         Special precautions for user       Warning: Toxic substances         Transport in bulk according to Annex II of MARPOLT3/78 and the IBC Code Not applicable.       Transport in bulk according to Annex II of MARPOLT3/78 and the IBC Code Not applicable.         Transport/Additional information:       DOT       Mod         DOT       Mod       Model Regulation*:       UN2811, Toxic solids, organic, n.o.s. (Ethyltriphenylphosphonium iodide), 6.1, III         15 Regulatory information       Safety, health and environmental regulations/legislation specific for the substance or mixture       GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hazard pictograms       Week       Hazard pictograms         GHS05 GHS06       Signal word Danger       Hazard pictograms         Hazard pictograms       Have of pictograms       Have of pictograms         Presentions y satements       How of benetions down and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hazard pictograms       Have of pictograms       Have of pictograms         Hazard pictograms       Have of pictograms       Have of pictograms         Hazard pictograms       Havoid brea	Class			
Label       6.1         Packing group DOT, IMDG, IATA       III         Environmental hazards:       Not applicable.         Special precautions for user       Warning: Toxic substances         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.       Transport/Additional information:         DOT       Model Regulational information:       No         DUT       No       UN2811, Toxic solids, organic, n.o.s. (Ethyltriphenylphosphonium iodide), 6.1, III <b>15 Regulatory information</b> Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms         Image: Comparison of the substance of the subs		6.1		
Label       6.1         Packing group DOT, IMDG, IATA       III         Environmental hazards:       Not applicable.         Special precautions for user       Warning: Toxic substances         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.       Transport/Additional information:         DOT, Morine Pollutant (DOT):       No         UN "Model Regulation":       UN2811, Toxic solids, organic, n.o.s. (Ethyltriphenylphosphonium iodide), 6.1, III <b>15 Regulatory information</b> Special elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hazard pictograms       Weight and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hazard pictograms       Weight and environmental regulations/legislation specific for the substance or mixture GHS label elements the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hazard pictograms       Weight and the stint is in the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hazard pictograms       Weight and the stint is in the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hazard pictograms       Weight and the stint is in the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hazard pictograms       Weight and thete stint is in the produc				
Environmental hazards:       Not applicable.         Special precautions for user       Warning: Toxic 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":       UN2811, Toxic solids, organic, n.o.s. (Ethyltriphenylphosphonium iodide), 6.1, III         15 Regulatory information       Safety, health and environmental regulations/legislation specific for the substance or mixture         GHS label elements       The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hazard pictograms       Feedulation (Dott):         W       Weight Substance is a substance or mixture         GHS 05 GHS06       Signal word Danger         Harmful in contact with skin.       H312 Agrues serious eye damage.         H33 K Agrue causer serious eye damage.       H33 K Agrue causer serious eye damage.         P261       Avoid breating dust/fume/gas/mist/vapours/spray.         P280       Wear protective cloining/eye protection.         P301+P31+P318 JE IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P305       Store locked up.         P301       Dispose of contents/container in accordance with local/regional/national/international regulations.	Label			
Environmental hazards:       Not applicable.         Special precautions for user       Warning: Toxic 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":       UN2811, Toxic solids, organic, n.o.s. (Ethyltriphenylphosphonium iodide), 6.1, III         15 Regulatory information       Safety, health and environmental regulations/legislation specific for the substance or mixture         GHS label elements       The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hazard pictograms       Feedulation (Dott):         W       Weight Substance is a substance or mixture         GHS 05 GHS06       Signal word Danger         Harmful in contact with skin.       H312 Agrues serious eye damage.         H33 K Agrue causer serious eye damage.       H33 K Agrue causer serious eye damage.         P261       Avoid breating dust/fume/gas/mist/vapours/spray.         P280       Wear protective cloining/eye protection.         P301+P31+P318 JE IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P305       Store locked up.         P301       Dispose of contents/container in accordance with local/regional/national/international regulations.	Packing group DOT, IMDG, IATA	111		
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":       UN2811, Toxic solids, organic, n.o.s. (Ethyltriphenylphosphonium iodide), 6.1, III <b>15 Regulatory information</b> Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hazard pictograms         Image: Comparison of the substance of the substance or mixture get statements         Hazard pictograms         Image: Comparison of the substance of the substance or mixture get statements         Hazard pictograms         Image: Comparison of the substance or mixture get statements         Hazard pictograms         Image: Comparison of the substance or mixture get statements         Hazard pictograms         Image: Comparison of the substance or mixture get statements         Hazard statements         Hazard statements         P261       Avoid breathing dust/furme/gas/mist/vapours/spray.         P281       Model breathing dust/furme/gas/mist/vapours/spray.         P281       Model breathing dust/furme/gas/mist/vapours/spray.         P281       Not obreathing dust/furme/gas/mist/vapours/spray.		Not applicable.		
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15 Regulatory information         Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms <ul> <li></li></ul>	Marine Pollutant (DOT):			
Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms         Image: Signal word Danger Hazard Statements H301 Toxic if swallowed. H312 Harmful in contact with skin. H318 Causes serious eye damage. H336 May cause respiratory irritation. Precautionary statements P261         Image: Precautionary statements P360       Note Participation. Precautionary statements P261         P261       Avoid breathing dust/fume/gas/mist/vapours/spray. P261         P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305         P405       Store locked up. 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 Domestic Substances List (DSL). SARA Section 31 (specific toxic chemical listings) Substance is not listed.         SARA Section 31 (specific toxic chemical listings) Substance is not listed.	UN "Model Regulation":	UN2811, Toxic solids, organic, n.o.s. (Ethyltriphenylphosphonium iodide), 6.1, III		
Hazard statements         H301 Toxic if swallowed.         H312 Harmful in contact with skin.         H318 Causes serious eye damage.         H318 Causes serious erepiratory irritation.         Precautionary statements         P261       Avoid breathing dust/fume/gas/mist/vapours/spray.         P280       Wear protective gloves/protective clothing/eye protection/face protection.         P301+P310       IF SWALLOWED: Immediately call a POISON CENTER/ doctor/         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/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 Domestic Substances List (DSL).       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.	Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms			
USA	Hazard statements         H301 Toxic if swallowed.         H312 Harmful in contact with skin.         H318 Causes serious eye damage.         H335 May cause respiratory irritation.         Precautionary statements         P261       Avoid breathing dust/fume/gas/mist/vapours/spray.         P280       Wear protective gloves/protective clothing/eye protection/fa         P301+P310       IF SWALLOWED: Immediately call a POISON CENTER/ dc         P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes         P405       Store locked up.	octor/ s. Remove contact lenses, if present and easy to do. Continue rinsing.		

#### Product name: Ethyltriphenylphosphonium iodide

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Prop 65 - Developmental toxicity 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 a beserved. 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.

#### 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 user.

Department issuing SDS: Global Marketing Department
Date of preparation / last revision 11/23/2015 / Abbreviations and acronyms:

RD: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transport Association
IATA: International Air Transport Association
IATA: International Civil Aviation Organization
IATA: International Air Transport Association
IATA: International Civil Aviation Organization
IATA: International Air Transport Association
IATA: International Civil Aviation Organization
IATA: International Civil Aviation Organization
IATA: International Air Transport Association
IATA: International Agistracts Service (Idvision of the American Chemical Society)