

Safety Data Sheet per OSHA HazCom 2012

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Product name: 2-(Trifluoromethoxy)aniline

Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Substances CAS# Description: 1535-75-7 2-(Trifluoromethoxy)aniline Identification number(s): EC number: 216-257-9

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.

Seek immediate medical advice. **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** Meet important examples and offects, both agute and delayed Methomoglebingmin.

Most important symptoms and effects, both acute and delayed Methemoglobinemia Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media Suitable extinguishing agents In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water. 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 Nitrogen oxides (NOX) Hydrogen fluoride (HF) Advice for firefibrance 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. Environmental precautions: Do not allow material to be released to the environment without Methods and material for containment and cleaning up: Keep away from ignition sources. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: Keep away from ignition sources. 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: Keep ignition sources away. 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. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. **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 and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.

Product name: 2-(Trifluoromethoxy)aniline

(Contd. of page 2)

Protection of hands: Impervious gloves 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. Eye protection: Safety glasses Body protection: Protective work clothing.			
9 Physical and chemical properties			
Information on basic physical and ch General Information Appearance: Form: Color: Odor: Odor: Odor threshold:	hemical properties Liquid Pale yellow Not determined Not determined.		
pH-value:	Not determined.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 61-63 °C (142-145 °F) (15mm Hg) Not determined		
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	63 °C (145 °F) Not determined Not determined Not determined Not determined.		
Danger of explosion:	Product does not present an explosion bazard		

Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits: Lower:	Not determined
Upper:	Not determined
Vapor pressure: Density at 20 °C (68 °F):	Not determined
Relative density	1.301 g/cm³ (10.857 lbs/gal) Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix
Partition coefficient (n-octanol/water):	
Viscosity:	
dynamic:	Not determined.
kinematic: Other information	Not determined. No further relevant information available.

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 Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Nitrogen oxides Hydrogen fluoride 11 Toxicological information Information on toxicological effects
Acute toxicity:
Harmful in contact with skin.
Harmful if swallowed.
Toxic if inhaled.
Danger through skin absorption.
LD/LCS0 values that are relevant for classification: No data
Skin irritation or corrosion: Causes skin irritation.
Eye irritation or corrosion: Causes serious eye irritation.
Germ cell mutagenicity: No effects known.
Germ cell mutagenicity: No effects known.
Specific target organ system toxicity - single exposure:
Naspiration hazard: No effects known.
Secific target organ system toxicity: - single exposure: No effects known.
Subacute to chronic toxicity:
May cause damage to the liver, the blood and the endocrine system through prolonged or repeated exposure. Route of exposure: Oral, Inhalative.
Specific target organ system toxicity: - single exposure: No effects known.
Subacute to chronic toxicity:
Absorption hazard: No effects known.
Subacute to chronic toxicity:
Absorption hazard: No effects known.
Subacute to chronic toxicity:
Absorption hazard: No effects known.
Subacute to chronic toxicity:
Absorption hazard: No effects known.
Subacute to chronic toxicity:
Absorption hazard: No effects known.
Subacute to chronic toxicity:
Absorption hazard: No effects known.
Subacute to chronic toxicity:
Absorption hazard: No effects known.
Subacute to chronic toxicity:
Absorption hazard: No effects known.
Subacute to chronic toxicity:
Absorption hazard: No effects known.
Subacute to chronic toxicity:
Absorption the body may lead to the formation of methemoglobin, producing cyanosis, and marked fall in blood pressure leading to collapse, coma and possibly
death.
Onset may be delayed 2-4 hours or longer.
Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. Information on toxicological effects

12 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 co

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: 2-(Trifluoromethoxy)aniline (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 UN2810 UN proper shipping name DOT Toxic, liquids, organic, n.o.s. (2-(Trifluoromethoxy)aniline) TOXIC LIQUID, ORGANIC, N.O.S. (2-(Trifluoromethoxy)aniline) ĨMDG, IATA Transport hazard class(es) DOT Class 6.1 Toxic substances. Label Class 6.1 6.1 (T1) Toxic substances Label IMDG, IATA 6.1 Class 6.1 Toxic substances. Label 61 Packing group DOT, IMDG, IATA IIIEnvironmental 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": UN2810, Toxic, liquids, organic, n.o.s. (2-(Trifluoromethoxy)aniline), 6.1, III 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 S. < GHS06 GHS08

Signal word Danger Hazard statements H227 Combustible liquid. H302+H312 Harmful if swallowed or in contact with skin. H302+H312 Harmful if swallowed or in contact with skin. H303 Toxic if inhaled. H304 Causes skin wintation. H319 Causes skin wintation. H310 Causes for Ni bide. H310 Causes fore figure form

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(Contd. of page 4)

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:
RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods kegulations by the "International Air Transport Association" (IATA)
ICAC: 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 Abstracts Service (division of the American Chemical Society)

USA