



1 Identification
Product identifier
Product name: 2-Chloro-4-fluorobenzylamine
Stock number: L12957 CAS Number:
15205-11-5 <b>Relevant identified uses of the substance or mixture and uses advised against.</b> 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 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)
GHS05 Corrosion
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage. 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
A PARTICIPACITY OF THE PARTICI
GHS05
Signal word Danger
Hazard statements H314 Causes severe skin burns and eye damage.
Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification
D2B - Toxic material causing other toxic effects E - Corrosive material
Classification system HMIS ratings (scale 0-4)
(Hazardouš Materials Identification System)
HEALTH 2 Health (acute effects) = 2 FIRE 1 Flammability = 1
REACTIVITY Physical Házard = 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: 15205-11-5 2-Chloro-4-fluorobenzylamine
4 First-aid measures
Description of first aid measures
General information Immediately remove any clothing soiled by the product. After inhalation
Supply fresh air. If required, provide artificial respiration. Keep patient warm. 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 śwallowing Seek medical tréatment. (Contd. on page 2
USA

## Product name: 2-Chloro-4-fluorobenzylamine

Page 2/5 Printing date 11/24/2015 Reviewed on 10/14/2008

(Contd. of page 1) Information for doctor Most important symptoms and effects, both acute and delayed Causes severe skin burns. Causes serious eve damage 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 Hydrogen fluoride (HF) Nitrogen oxides (NOx) Hydrogen chloride (HCI) 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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. 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 Handle under dry protective gas. Keep container tightly sealed. Reep container uging searcy. 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 away from air. Further information about storage conditions: Store under dry inert gas. This product is air sensitive 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 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 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 Full face protection Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form:

Liquid

## Product name: 2-Chloro-4-fluorobenzylamine

Product name: 2-Chloro-4-fluoroben	zylamine	
		(Contd. of page 2)
Color: Odor:	Colorless Not determined	
Odor threshold: pH-value:	Not determined. Not determined.	
Change in condition	1400 4616111111164.	
Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 94-95 °C (201-203 °F) (15 mmHg) Not determined	
Ignition temperature: Decomposition temperature:	> 110 °C (> 230 °F) Not determined Not determined Not determined	
Auto igniting: Danger of explosion:	Not determined. Product does not present an explosion hazard.	
Explosion limits: Lower: Upper:	Not determined Not determined	
Vapor pressure: Density:	Not determined Not determined	
Relative density Vapor density	Not determined. Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water):	Not miscible or difficult to mix	
Partition coefficient (n-octanol/water): Viscosity:		
dynamic: kinematic:	Not determined. Not determined.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Possibility of hazardous reactions No Conditions to avoid No further relevant	nended storage conditions. o <b>be avoided:</b> Decomposition will not occur if used and stored according to specifications. dangerous reactions known information available.	
Incompatible materials: Air Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Nitrogen oxides Hydrogen chloride (HCI)		
Skin irritation or corrosion: Causes se Eye irritation or corrosion: Causes sen Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno Carcinogenicity: No classification data of Reproductive toxicity: No effects known. Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known.	ious eye damage. wm. wn. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n. <b>repeated exposure:</b> No effects known.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant info Persistence and degradability No furth Bioaccumulative potential No further re Mobility in soil No further relevant inforr Additional ecological information: General notes: Do not allow material to be released to th Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	er relevant information available. elevant information available. mation available. ne environment without proper governmental permits.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local of Uncleaned packagings: Recommendation: Disposal must be ma	r national regulations to ensure proper disposal. ade according to official regulations.	
14 Transport information		
UN-Number DOT, IMDG, IATA	UN2735	
201, IIVIDO, IATA	011/2/00	(Contd. on page 4
		UŠA-

roduct name: 2-Chloro-4-fluorobenzylamine	
	(Contd. of page
UN proper shipping name DOT	Amines, liquid, corrosive, n.o.s. (2-Chloro-4-fluorobenzylamine)
IMDG, IATA	AMINES, LIQUID, CORROSIVE, N.O.S. (2-Chloro-4-fluorobenzylamine)
Transport hazard class(es) DOT	
Class	8 Corrosive substances.
Label Class	8 8 (C7) Corrosive substances
Label IMDG, IATA	8
Class	8 Corrosive substances.
Label Packing group DOT, IMDG, IATA	8
	III Natarriachta
Environmental hazards: Special precautions for user	Not applicable. Warning: Corrosive substances
Segregation groups	Warning: Corrosive substances Alkalis
Transport in bulk according to Annex II of MARPOL73/78 and Transport/Additional information:	
DOT	
Marine Pollutant (DOT): UN "Model Regulation":	No UN2735, Amines, liquid, corrosive, n.o.s. (2-Chloro-4-fluorobenzylamine), 8, III
	UNZ733, Amines, liquid, conosive, n.o.s. (2-Chioro-4-huorobenzylamine), 8, hi
GHS05 Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/sc	nav.
Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/sp P303+P361+P353 If on skin (or hair): Take off immediately all col P305+P351+P338 IF IN EYES: Rinse cautiously with water for se P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induc P405 Store locked up. P501 Dispose of contents/container in accordance v National regulations This product is not listed in the U.S. Environmental Protection Ag to research and development only. This product must be used by product must not be used for commercial purposes or in formulati SARA Section 313 (specific toxic chemical listings) Substance 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. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity curve only by technically	e is not listed. listed. ed.
Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/sp P303+P361+P353 If on skin (or hair): Take off immediately all col P305+P351+P338 IF IN EYES: Rinse cautiously with water for se P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induc P405 Store locked up. P501 Dispose of contents/container in accordance v National regulations This product is not listed in the U.S. Environmental Protection Ag to research and development only. This product must be used by product must not be used for commercial purposes or in formulati SARA Section 313 (specific toxic chemical listings) Substance 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. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity curve only by technically	with local/regional/national/international regulations. ency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricte or directly under the supervision of a technically qualified individual as defined by TSCA. This ions for commercial purposes. e is not listed. listed. ed. qualified individuals. EACH Regulations (EC) No. 1907/2006. Substance is not listed. nex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on th
Signal word Danger         Hazard statements         H314 Causes severe skin burns and eye damage.         Precautionary statements         P260       Do not breathe dust/fume/gas/mist/vapours/spp         P303+P361+P353 If on skin (or hair): Take off immediately all col         P305+P351+P338 IF IN EYES: Rinse cautiously with water for se         P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induct         P405       Store locked up.         P501       Dispose of contents/container in accordance v         National regulations       This product is not listed in the U.S. Environmental Protection Ag         to research and development only. This product must be used by       product must not be used for commercial purposes or in formulati         SARA Section 313 (specific toxic chemical listings) Substance       formulation         Prop 65 - Chemicals known to cause cancer Substance is not listed.       Prop 65 - Developmental toxicity, female Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed.       Information about limitations and prohibitive regulations         Substance of Very High Concern (SVHC) according to the RE       The conditions of restrictions according to Article 67 and An         market and use must be observed.       Substance is not listed.         Annex XIV of the REACH Regulations (requiring Authorisatio Chemical safety assessment: A Chemical Safety Assessment for the formation to ensure pr	with local/regional/national/international regulations. ency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted or directly under the supervision of a technically qualified individual as defined by TSCA. This ions for commercial purposes. e is not listed. listed. ed. qualified individuals. EACH Regulations (EC) No. 1907/2006. Substance is not listed. nex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on th
Signal word Danger         Hazard statements         H314 Causes severe skin burns and eye damage.         Precautionary statements         P260       Do not breathe dust/fume/gas/mist/vapours/sp         P303+P361+P353 If on skin (or hair): Take off immediately all col         P305+P351+P338 IF IN EYES: Rinse cautiously with water for se         P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induc         P405       Store locked up.         P501       Dispose of contents/container in accordance w         National regulations       This product is not listed in the U.S. Environmental Protection Agi         to research and development only. This product must be used by       product must not be used for commercial purposes or in formulati         SARA Section 313 (specific toxic chemical listings) Substance       California Proposition 65         Prop 65 - Developmental toxicity, female Substance is not listed.       Prop 65 - Developmental toxicity, female Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed.       Prop 65 - Developmental toxicity, female Substance is not listed.         Maremation about limitation of use: For use only by technically       Other regulations         Substance of Very High Concern (SVHC) according to the RE       The conditions of restrictions according to Article 67 and An         market and use must be observed.       Substance is not listed.       Annex XIV of t	with local/regional/national/international regulations. ency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted or directly under the supervision of a technically qualified individual as defined by TSCA. This ions for commercial purposes. e is not listed. listed. ed. requalified individuals. EACH Regulations (EC) No. 1907/2006. Substance is not listed. nex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the on for use) Substance is not listed. has not been carried out. ther information gathered by them, and should make independent judgement of suitability of this y of employees. This information is furnished without warranty, and any use of the product not in ion with any other product or process, is the responsibility of the user.
Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements Do no to breathe dust/fume/gas/mist/vapours/sp P303+P361+P353 If on skin (or hair): Take off immediately all col P305+P351+P338 IF IN EYES: Rinse cautiously with water for se P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induc P405 Store locked up. P501 Dispose of contents/container in accordance v National regulations This product is not listed in the U.S. Environmental Protection Ag to research and development only. This product must be used by product must not be used for commercial purposes or in formulati SARA Section 313 (specific toxic chemical listings) Substance California Proposition 65 Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. More regulations, limitation of use: For use only by technically Other regulations of restrictions according to Article 67 and An market and use must be observed. Substance of Very High Concern (SVHC) according to the RE The conditions of restrictions according to Article 67 and An market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisatio Chemical safety assessment: A Chemical Safety Assessment to ot information to ensure proper use and protect the health and safet conformance with this Material Safety Data Sheet, or in combinat Department issuing SDS: Global Marketing Department	with local/regional/national/international regulations. ency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted or directly under the supervision of a technically qualified individual as defined by TSCA. This ions for commercial purposes. e is not listed. listed. ed. requalified individuals. EACH Regulations (EC) No. 1907/2006. Substance is not listed. nex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the on for use) Substance is not listed. has not been carried out. ther information gathered by them, and should make independent judgement of suitability of this y of employees. This information is furnished without warranty, and any use of the product not in ion with any other product or process, is the responsibility of the user.
Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements Do no to breathe dust/fume/gas/mist/vapours/sp P303+P361+P353 If on skin (or hair): Take off immediately all col P305+P351+P338 IF IN EYES: Rinse cautiously with water for se P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induc P405 Store locked up. P501 Dispose of contents/container in accordance v National regulations This product is not listed in the U.S. Environmental Protection Ag to research and development only. This product must be used by product must not be used for commercial purposes or in formulati SARA Section 313 (specific toxic chemical listings) Substance California Proposition 65 Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. More regulations, limitation of use: For use only by technically Other regulations of restrictions according to Article 67 and An market and use must be observed. Substance of Very High Concern (SVHC) according to the RE The conditions of restrictions according to Article 67 and An market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisatio Chemical safety assessment: A Chemical Safety Assessment to ot information to ensure proper use and protect the health and safet conformance with this Material Safety Data Sheet, or in combinat Department issuing SDS: Global Marketing Department	with local/regional/national/international regulations. ency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted or directly under the supervision of a technically qualified individual as defined by TSCA. This ions for commercial purposes. e is not listed. listed. ed. requalified individuals. EACH Regulations (EC) No. 1907/2006. Substance is not listed. nex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on th on for use) Substance is not listed. has not been carried out. ther information gathered by them, and should make independent judgement of suitability of this ty of employees. This information is furnished without warranty, and any use of the product not in ion with any other product or process, is the responsibility of the user.
Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements Do no to breathe dust/fume/gas/mist/vapours/sp P303+P361+P353 If on skin (or hair): Take off immediately all col P305+P351+P338 IF IN EYES: Rinse cautiously with water for se P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induc P405 Store locked up. P501 Dispose of contents/container in accordance v National regulations This product is not listed in the U.S. Environmental Protection Ag to research and development only. This product must be used by product must not be used for commercial purposes or in formulati SARA Section 313 (specific toxic chemical listings) Substance California Proposition 65 Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. More regulations, limitation of use: For use only by technically Other regulations of restrictions according to Article 67 and An market and use must be observed. Substance of Very High Concern (SVHC) according to the RE The conditions of restrictions according to Article 67 and An market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisatio Chemical safety assessment: A Chemical Safety Assessment to ot information to ensure proper use and protect the health and safet conformance with this Material Safety Data Sheet, or in combinat Department issuing SDS: Global Marketing Department	with local/regional/national/international regulations. ency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted or directly under the supervision of a technically qualified individual as defined by TSCA. This ions for commercial purposes. e is not listed. listed. ed. requalified individuals. EACH Regulations (EC) No. 1907/2006. Substance is not listed. nex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on th on for use) Substance is not listed. has not been carried out. ther information gathered by them, and should make independent judgement of suitability of this is of employees. This information is furnished without warranty, and any use of the product not in ion with any other product or process, is the responsibility of the user.
Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements D260 Do not breathe dust/fume/gas/mist/vapours/sp P303+P361+P353 If on skin (or hair): Take off immediately all col P305+P351+P338 IF IN EYES: Rinse cautiously with water for se P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induc P405 Store locked up. P501 Dispose of contents/container in accordance v National regulations This product is not listed in the U.S. Environmental Protection Ag to research and development only. This product must be used by product must not be used for commercial purposes or in formulati SARA Section 313 (specific toxic chemical listings) Substance California Proposition 65 Prop 65 - Developmental toxicity, female 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 Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the RE The conditions of restrictions according to Article 67 and An market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisatio Chemical safety assessment: A Chemical Safety Assessment for information to ensure proper use and protect the health and safet conformance with this Material Safety Data Sheet, or in combinati Department issuing SDS: Global Marketing Department	with local/regional/national/international regulations. ency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted or directly under the supervision of a technically qualified individual as defined by TSCA. This ions for commercial purposes. e is not listed. listed. ed. requalified individuals. EACH Regulations (EC) No. 1907/2006. Substance is not listed. <b>nex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the</b> <b>on for use)</b> Substance is not listed. has not been carried out.

## Product name: 2-Chloro-4-fluorobenzylamine

vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Page 5/5 Printing date 11/24/2015 Reviewed on 10/14/2008

(Contd. of page 4)

USA