

Safety Data Sheet per OSHA HazCom 2012

1 Identification	
Product identifier Product name: <b>2-IsopropyIbenzimidazole</b>	
Stock number: A11356, L07694	
CAS Number: 5851-43-4	
Relevant identified uses of the substance or mixture and uses advised against. 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)	
GHS07	
Skin Irrit. 2 H315 Causes skin irritation.	
Eye Irrit. 2A H319 Causes serious eye irritation.	
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	
GHS07	
Signal word Warning Hazard statements H215 Courses oldin initiation	
H315 Causes skin irritation. H319 Causes serious eye irritation. H325 May cause represent irritation.	
H335 May cause respirátory irritation. Precautionary statements DOG	
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P304+P340 IF INDALED: Remove person to fresh air and keep comfortable for breathing. 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	
$(\overline{\mathbf{T}})$	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE I 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:	
5851-43-4 2-lsopropylbenzimidazole	
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 Immediately wash with water and soap and rinse thoroughly.	
Seek immédiate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	
After śwallowing Seek medical treatment. (Contd. o	n page 2)
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Broduct name: 2-leonronylbonzimid		
Product name: 2-Isopropylbenzimid	azoie	
Information for doctor	- bath and delayed his firster relevant information available	(Contd. of page 1)
Indication of any immediate medical	s, both acute and delayed No further relevant information available. attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon Special hazards arising from the subs If this product is involved in a fire, the fo Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. <b>stance or mixture</b> Illowing can be released:	
6 Accidental release measures Personal precautions, protective equi Wear protective equipment. Keep unpro Ensure adequate ventilation Environmental precautions: Do not all Methods and material for containmen Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha See Section 8 for information on person See Section 13 for disposal information.	otected persons away. The environment without proper governmental permits. Ilow material to be released to the environment without proper governmental permits. Int and cleaning up: Ensure adequate ventilation. In special measures required. andling	
Conditions for safe storage, including Storage Requirements to be met by storeroon	e. explosions and fires: No information known. g any incompatibilities ns and receptacles: No special requirements. nmon storage facility: Store away from oxidizing agents. nditions: led containers.	
Control parameters		
Exposure controls Personal protective equipment General protective and hygienic meas The usual precautionary measures for h Keep away from foodstuffs, beverages a Remove all soiled and contaminated clo Wash hands before breaks and at the en Avoid contact with the eyes and skin. Maintain an ergonomically appropriate v Breathing equipment: Use suitable res Protection of hands: Impervious gloves Check protective gloves prior to each us	nandling chemicals should be followed. and feed. sthing immediately. nd of work. spirator when high concentrations are present. se for their proper condition. y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
9 Physical and chemical properties	s	
Information on basic physical and ch General Information Appearance: Form: Odor:	emical properties Crystalline powder Not determined	
Odor threshold: pH-value:	Not determined. Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not applicable. 234-236 °C (453-457 °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:	Product does not present an explosion hazard.	
		(Contd. on page 3)

## Product name: 2-Isopropylbenzimidazole

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Product name: 2-Isopropylbenzimidazole		
		(Contd. of page 2)
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	Not determined Not applicable. Not applicable. Not determined Not determined. Not applicable. Not applicable. Not determined Not determined. Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomn Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing agen Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides	information available.	
Reproductive toxicity: No effects known Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. Other information (about experimenta Subacute to chronic toxicity: No effect	in irritation. ious eye irritation. 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. • <b>single exposure:</b> May cause respiratory irritation. <b>I toxicology):</b> Mutagenic effects have been observed on tests with bacteria.	
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 Do not allow undiluted product or large q Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releval	er relevant information available. elevant information available. mation available. ne environment without proper governmental permits. uantities to reach ground water, water course or sewage system.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local of Uncleaned packagings: Recommendation: Disposal must be me	r national regulations to ensure proper disposal. ade according to official regulations.	
<b>14 Transport information</b> Not a hazardous material for transportation	on.	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es) DOT, ADR, IMDG, IATA Class	None	
Packing group DOT, IMDG, IATA	None	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
· · · · ·	II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	(Contd. on page 4)
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DOT Marriag Dallutant (DOT):	
Marine Pollutant (DOT):	No
Regulatory information Safety, health and environmental regulati GHS label elements The product is classifie Hazard pictograms	ions/legislation specific for the substance or mixture ed and labeled in accordance with 29 CFR 1910 (OSHA HCS)
$\diamond$	
GHS07 Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P261	
P280 Wear protective gloves/p P305+P351+P338 IF IN EYES: Rinse cautio	ne/gas/mist/vapours/spray. rotective clothing/eye protection/face protection. pusly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. prson to fresh air and keep comfortable for breathing.
P501 Dispose of contents/cont <b>National regulations</b> This product is not listed in the U.S. Environ to research and development only. This proc	ainer in accordance with local/regional/national/international regulations. mental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric duct must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This rposes or in formulations for commercial purposes.
SARA Section 313 (specific toxic chemica California Proposition 65 Prop 65 - Chemicals known to cause can Prop 65 - Developmental toxicity, female Prop 65 - Developmental toxicity, female St Information about limitation of use: For u Other regulations, limitations and prohibi Substance of Very High Concern (SVHC) The conditions of restrictions according to market and use must be observed.	al listings) Substance is not listed. cer Substance is not listed. ce is not listed. Substance is not listed. ubstance is not listed. se only by technically qualified individuals.
Substance is not listed. Annex XIV of the REACH Regulations (red Chemical safety assessment: A Chemical	<b>quiring Authorisation for use)</b> Substance is not listed. Safety Assessment has not been carried out.
information to ensure proper use and protec	as a supplement to other information gathered by them, and should make independent judgement of suitability of this t the health and safety of employees. This information is furnished without warranty, and any use of the product not i Sheet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Date of preparation / last revision 11/23/2 Abbreviations and acronyms: RID: Réglement international concernant le transport des r IATA-DGR: Dangerous Goods Regulations by the "Interna	0157 -
ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil / MDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation RATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the Americar HMIS: Workplace Hazardous Materials Information Syste CSO: Lethal concentration, 50 percent LDSD: Lethal concentration, 50 percent ACGIH: American Conference of Governmental Industrial I OSHA: Occupational Safety and Health Administration (US NTP: National Toxicology Program (USA) NTP: National Toxicology Program (USA) ARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) tional Air Transport Association" (IATA) Aviation Organization" (ICAO) n Chemical Society) em (Canada)
vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial OSHA: Occupational Safety and Health Administration (US NTF: National Toxicology Program (USA) ARC: International Agency for Research on Cancer	Hygienists (USA) XA)