



Product name: 2,3-Difluorocinnamic	acid	
Information for Jacks		(Contd. of page 1)
Information for doctor Most important symptoms and effects Indication of any immediate medical a	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 fol Carbon monoxide and carbon dioxide Hydrogen fluoride (HF) 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. stance or mixture llowing can be released:	
6 Accidental release measures Personal precautions, protective equi Wear protective equipment. Keep unprot Ensure adequate ventilation Environmental precautions: Do not all Methods and material for containment Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha See Section 8 for information on persona See Section 13 for disposal information.	ntected persons away. Iow material to be released to the environment without proper governmental permits. I t and cleaning up: Ensure adequate ventilation. Special measures required. andling	
Conditions for safe storage, including Storage Requirements to be met by storeroom	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: ed containers.	
Control parameters		
Exposure controls Personal protective equipment General protective and hygienic meas The usual precautionary measures for ha Keep away from foodstuffs, beverages a Remove all soiled and contaminated clot Wash hands before breaks and at the er Avoid contact with the eyes and skin. Maintain an ergonomically appropriate w Breathing equipment: Use suitable resp Protection of hands: Impervious gloves Check protective gloves prior to each us	nd reed. thing immediately. nd of work. spirator when high concentrations are present. se for their proper condition. r depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
9 Physical and chemical properties	3	
Information on basic physical and che General Information Appearance:	emical properties	
'Form: Odor: Odor threshold:	Crystalline powder Not determined Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 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) USA –

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Product name: 2,3-Difluorocinnamic acid		
		(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 determined Not determined. Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.	information available.	
Reproductive toxicity: No effects know Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. 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. repeated exposure: No effects known. single exposure: May cause respiratory irritation.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant info Persistence and degradability No furthe Bioaccumulative potential No further ref Mobility in soil No further relevant infor 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 releva	elevant information available. nation available. ne environment without proper governmental permits. uantities to reach ground water, water course or sewage system.	
13 Disposal considerations		
Waste treatment methods	r national regulations to ensure proper disposal. ade according to official regulations.	
14 Transport information Not a hazardous material for transportati	on.	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es)	NOID	
DOT, ADR, IMDG, IATA Class	None	
Packing group DOT, IMDG, IATA	None	
Environmental hazards:	Note 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	
Marine Pollutant (DOT):	No
Regulatory information Safety, health and environmental regulation GHS label elements The product is classifie Hazard pictograms	ons/legislation specific for the substance or mixture d and labeled in accordance with 29 CFR 1910 (OSHA HCS)
$\langle \mathbf{b} \rangle$	
GHS07	
P304+P340 IF INHALED: Remove per	e/gas/mist/vapours/spray. otective clothing/eye protection/face protection. usly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. rson to fresh air and keep comfortable for breathing.
P501 Dispose of contents/conta	iner in accordance with local/regional/national/international regulations.
to research and development only. This prod product must not be used for commercial pur SARA Section 313 (specific toxic chemica California Proposition 65	
Prop 65 - Chemicals known to cause canc Prop 65 - Developmental toxicity Substance Prop 65 - Developmental toxicity, female Su Prop 65 - Developmental toxicity, male Su Information about limitation of use: For us Other regulations, limitations and prohibit Substance of Very High Concern (SVHC) a The conditions of restrictions according to	e is not listed. Substance is not listed. bstance is not listed. e only by technically qualified individuals.
market and use must be observed. Substance is not listed.	
	juiring Authorisation for use) Substance is not listed. Safety Assessment has not been carried out.
information to ensure proper use and protect	s a supplement to other information gathered by them, and should make independent judgement of suitability of this the health and safety of employees. This information is furnished without warranty, and any use of the product not in theet, 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 11/24/20 Abbreviations and acronyms: PID: Partment international constraint to transport dos m	015'/-
DUT: US Department of Transportation	archandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) onal Air Transport Association" (IATA) viation Organization" (ICAO)
IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information Systel LO50: Lethal dose, 50 percent PVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial H OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	Chemical Society) m (Canada)
A VL, VOJY e fisikenik and very biddcullinulative ACGIH: American Conference of Governmental Industrial H OSHA: Occupational Safety and Health Administration (USA MTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Performation Agency (USA)	ygienists (USA) 1)