

Safety Data Sheet per OSHA HazCom 2012

1 I I I I I I I I I I I I I I I I I I I	Reviewed on 02/10	J/201
Product name: (+)-Differency/D-fartaric acid, anhydrous Stock number: Charles Of the supplier of the safety data sheet Markets There of Safety Sciences Charles Of the Supplier of the safety data sheet Markets There of Safety Sciences Charles Of the Supplier of the safety data sheet Markets There of Safety Sciences Charles Constantion Observment: Health, Safety and Environmental Department: During thoring Markets Numbers Numbers Nume, Incode-Pring: Charles Observment: Observment: Observment: Production of the substance or multure in accordance with 29 CFR 1910 (OSHA HCS) Observment: Observment: Production Safety Healthoring Markets in out of the substance or multure in accordance with 29 CFR 1910 (OSHA HCS) Production Safety Healthoring Markets in out of the substance or multure in accordance with 29 CFR 1910 (OSHA HCS)	1 Identification	
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Manufacture/Subject Of State	Identified use: SU24 Scientific research and development	
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Marce 104, 144, UHBS-10409 Are: 80-32, 4757 Email: tech balanta so multiple Design for the partment Headth, Safety and Environmental Department Email: tech balances hours (hourbu-Friday, Bam-Tpm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789. 21 Nazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Construction of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Charle Internation of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Charle Internation of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Charle Internation of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Charle Internation of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Charle Internation of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Construction of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Construction of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Construction of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Construction of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Construction of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Constreconstrecontermits Construction of the	Alfa Aesar	
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Information Department: Health, Safety and Environmental Department Emergency weighthome numbers 2 Hazards): Identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	Fax: 800-322-4757 Email: tech@alfa.com	
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P305+P31+P338 IF IN EYES; Rinse cauliously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P307+P31-B1 Cost material causing other toxic effects	Precautionary statements	
WHMIS classification D2B - Toxic material acusing other toxic effects D2B - Toxic material causing other toxic effects D2B - Toxic material causing other toxic effects Classification system HMIS ratings (scale 0-4) HMIS ratings (scale 0-4) If any distribution of the construction of the consteneed of the constened of the construction of the consteneed of t	P260 Wear protective groves/protective clothing/eye protection/race protection/ P264 Wash thoroughly after handling.	
WHMIS classification D2B - Toxic material acusing other toxic effects D2B - Toxic material causing other toxic effects D2B - Toxic material causing other toxic effects Classification system HMIS ratings (scale 0-4) HMIS ratings (scale 0-4) If any distribution of the construction of the consteneed of the constened of the construction of the consteneed of t	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.	
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		- USA -

Product names (1) Dibonzov/D tarta	ric soid should be a second shou	wed on 02/10/2015
Product name: (+)-Dibenzoyl-D-tarta	ric acid, annyarous	(Contd. of page 1)
Indication of any immediate medical a	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 foll Carbon monoxide and carbon dioxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. tance or mixture lowing can be released:	
6 Accidental release measures Personal precautions, protective equip Wear protective equipment. Keep unprot Ensure adequate ventilation Environmental precautions: Do not allo Methods and material for containment Prevention of secondary hazards: No s Reference to other sections See Section 7 for information on safe hallow See Section 8 for information on personal See Section 13 for disposal information.	tected persons away. The sevage system or any water course. t and cleaning up: Pick up mechanically. special measures required. Indling	
Conditions for safe storage, including Storage Requirements to be met by storeroom	explosions and fires: No information known. any incompatibilities and receptacles: No special requirements. amon storage facility: Store away from oxidizing agents. anditions:	
Control parameters Components with limit values that req The product does not contain any releval Additional information: No data Exposure controls Personal protective equipment General protective equipment General protective and hygienic meas The usual precautionary measures for ha Keep away from foodstuffs, beverages an Remove all soiled and contaminated clot Wash hands before breaks and at the en Avoid contact with the eyes. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate w Breathing equipment: Use suitable rest Recommended filter device for short f Use a respirator with type N95 (USA) or purifying respirators are appropriate. On Protection of hands: Impervious gloves Check protective gloves prior to each use	of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. sures and ing chemicals should be followed. Ind feed. thing immediately. a of work. vorking environment. pirator when high concentrations are present. term use: PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to de nly use equipment tested and approved under appropriate government standards. e for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. minutes) 480	termine if air-
9 Physical and chemical properties		
Information on basic physical and che General Information Appearance: Form: Color:		
Odor: Odor threshold:	Not determined Not determined.	
pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous)	Not applicable. 154-156 °C (309-313 °F) Not determined Not determined Not determined.	

Product name: (+)-Dibenzoyl-D-tartaric acid, anhydrous

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Product name: (+)-DibenzoyI-D-tarta	aric acid, anhydrous	
		(Contd. of page 2)
Ignition temperature:	Not determined	
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower: Upper:	Not determined Not determined	
Vapor pressure:	Not applicable.	
Density:	Not determined	
Relative density Vapor density	Not determined. Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with Water:	Not determined	
Partition coefficient (n-octanol/water)		
Viscosity: dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity		
10 Stability and reactivity		
Reactivity No information known. Chemical stability Stable under recom	nmended storage conditions	
Thermal decomposition / conditions	nmended storage conditions. t o be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions Re Conditions to avoid No further relevan	eacts with strong oxidizing agents	
Incompatible materials: Oxidizing age	ents	
Hazardous decomposition products:	Carbon monoxide and carbon dioxide	
11 Toxicological information		
Information on toxicological effects		
Acute toxicity: No effects known.		
LD/LC50 values that are relevant for o	classification: No data	
Skin irritation or corrosion: May caus	se irritation	
Eye irritation or corrosion: Caúses se Sensitization: No sensitizing effects kn	nous eye innauon. nown.	
Germ cell mutagenicity: No effects kn	nown. nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Carcinogenicity: No classification data Reproductive toxicity: No effects know	a on carcinogenic properties of this material is available from the EPA, IARC, NTP, USHA or ACGIH.	
Specific target organ system toxicity	/ - repeated exposure: No effects known.	
Specific target organ system toxicity	/ - single exposure: No effects known.	
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect		
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant int	aformation available	
Persistence and degradability No furt	ther relevant information available.	
Bioaccumulative potential No further i	relevant information available.	1
Mobility in soil No further relevant infor Additional ecological information:	irmation available.	I
General notes:		
Do not allow undiluted product or large	quantities to reach ground water, water course or sewage system.	
Avoid transfer into the environment. Results of PBT and vPvB assessmen	nt	
PBT: Not applicable.	n de la companya de la	
vPvB: Not applicable. Other adverse effects No further relevant	vant information available.	
13 Disposal considerations		
Waste treatment methods	as national samulations to anours proper dianooal	l
Uncleaned packagings:	or national regulations to ensure proper disposal.	l
Recommendation: Disposal must be m	nade according to official regulations.	
14 Transport information		
UN-Number		
DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADN, IMDG, IATA		
	Not applicable	
Transport hazard class(es)		l
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, IMDG, IATA		
	Not applicable	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
•	x II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
		(Contd. on page 4)

(Contd. of page 3)

Product name: (+)-Dibenzoyl-D-tartaric acid, anhydrous

UN "Model Regulation":

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 GHS07 Signal word Warning Hazard statements H319 Causes serious eve irritation. Precautionary statements Precationary statements P280 Wear protective gloves/protective clothing/eye protection/face protection. P264 Wash thoroughly after handling. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. 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 Non-Domestic Substances List (NDSL). All components of this product are listed on the Canadian Non-Domestic Substance's List (NDSL). 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. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, and 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 must be observed. Substance is not listed. not liste 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. Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -

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 Abbreviations and acronyms:

 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

 DOT: US Department of Transportation

 EVINCES: European Inventory of Existing Commercial Chemical Substances

 CAS: Chemical Abstracts Service (division of the American Chemical Society)

 HMIS: Hazardous Materials Identification System (USA)

 WHMIS: Workplace Hazardous Materials Information System (Canada)

 LCSO: Lethal concentration, 50 percent

 LDS0: Lethal concentration, 50 percent

 VPWE very Persistent and very Bioaccumulative

 ACGIH: American Collegy Program (USA)

 VFP: National Toxicology Program (USA)

 VAR: Occupational Agency for Research on Cancer

 EPA: Environmental Protection Agency (USA)

USA