SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ALPHA-ARBUTIN

Version 4.0

Revision Date 16.01.2015

Print Date 16.01.2015

.1 Product identifier		
Trade name	: ALPHA-ARBUT	ΓIN
REACH Registration Numb	er : 01-0000018470)-75-0000
Substance name CAS-No.	: 4-hydroxyphen : 84380-01-8	yl-a-D-glucopyranoside
.2 Relevant identified uses of	f the substance or mi	xture and uses advised against
Use of the Substance/Mixture	: Ingredient for p	ersonal care products
.3 Details of the supplier of the	ne safety data sheet	
Company Telephone Telefax E-mail address Responsible/issuing person	 Chanjao Longe Bangkok 10230 Thailand +662-002-7-002 +662-001-7-022 care@chanjao. 	- 1 2 2
1.4 Emergency telephone num	nber	
+662-002-7-002		
Classification (REGULAT) Acute toxicity, Category 4		
,, ₉ ,	H302	2: Harmful if swallowed.
Classification (67/548/EE0	C, 1999/45/EC)	
Classification (67/548/EEC Harmful	C, 1999/45/EC)	2: Harmful if swallowed. : Harmful if swallowed.
Classification (67/548/EE) Harmful 2.2 Label elements	C, 1999/45/EC) R22:	
Classification (67/548/EE) Harmful 2.2 Label elements Labelling (REGULATION (C, 1999/45/EC) R22:	
Classification (67/548/EE) Harmful 2.2 Label elements	C, 1999/45/EC) R22:	
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Classification (67/548/EEC Harmful 2.2 Label elements Labelling (REGULATION (Hazard pictograms	C, 1999/45/EC) R22: (EC) No 1272/2008)	

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ALPHA-ARBUTI				<u> </u>	
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	P330 Dispos	sal:	inse mouth.		
	P501			tents/ contain e disposal pla	
Hazardous compone 84380-01-8	nts which must be li alpha-D-glucop			1	
2.3 Other hazards					
Risk of dust explosion	n.				
3. Composition/inform	nation on ingredie	ents			
Brief description of th product					
Molecular formula ELINCS No.	: C12H : 440-4				
3.1 Substances					
Hazardous compon	ents				
Chemical Name	CAS-No. EC-No. Registration number	Classificatio (67/548/EE	C) (REGL	ssification JLATION (EC) 1272/2008)	Concentration [%]
alpha-D-glucopyranoside, 4-hydroxyphenyl	84380-01-8 440-470-8 01-0000018470-75	Xn; R22	Acute 1	ōx. 4; H302	>= 97 - < 100
 4. First aid measures 4.1 Description of first a General advice 		out of dangero	ous area.		
		this safety dat		e doctor in atte	endance.
If inhaled		to fresh air. Jlt a physician	after significa	ant exposure.	
In case of skin contac	Wash	off contaminate off with soap a ptoms persist,	and plenty of	water.	ediately.
In case of eye contac	Remo Protec Keep	eyes with wate we contact len ct unharmed e eye wide oper irritation persis	ses. ye. ı while rinsing	j .	
If swallowed	Do no Never	mouth with wa t give milk or a give anything n medical atter	alcoholic beve by mouth to	erages.	
4.2 Most important symp	otoms and effects,	both acute a	nd delayed		

Symptoms

: No specific symptoms known.

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I.3 Indication of any immediate r	nedical attention and special treatment	t needed
Treatment	Treat symptomatically.	
5. Firefighting measures		
5.1 Extinguishing media		
Suitable extinguishing media	: Water Foam	
5.2 Special hazards arising from	the substance or mixture	
Specific hazards during firefighting	: Do not allow run-off from fire fighting courses.	to enter drains or water
5.3 Advice for firefighters		
Special protective equipment for firefighters	: In the event of fire, wear self-contained	ed breathing apparatus.
Further information	: Collect contaminated fire extinguishir	ng water separately. This
	must not be discharged into drains. Fire residues and contaminated fire e	extinguishing water must
	be disposed of in accordance with loo	
	Consider dust explosion hazard.	
5.1 Personal precautions, protective equips Use personal protective equips Ensure adequate ventilation. Avoid dust formation. Avoid breathing dust.	tive equipment and emergency proced ment.	ures
6.2 Environmental precautions		
Do not flush into surface water	or sanitary sewer system.	
	ntainment and cleaning up	
6.3 Methods and materials for co	filamment and cleaning up	
6.3 Methods and materials for co Pick up and arrange disposal v	• •	
Pick up and arrange disposal v	• •	
 6.3 Methods and materials for co Pick up and arrange disposal v 6.4 Reference to other sections For personal protection see se 	without creating dust.	
Pick up and arrange disposal v 6.4 Reference to other sections	without creating dust.	
Pick up and arrange disposal w 6.4 Reference to other sections For personal protection see se For disposal considerations se	without creating dust.	
Pick up and arrange disposal w 5.4 Reference to other sections For personal protection see se For disposal considerations se 7. Handling and storage	without creating dust. ection 8. ee section 13.	
Pick up and arrange disposal v 6.4 Reference to other sections For personal protection see se	without creating dust. ection 8. ee section 13.	
Pick up and arrange disposal v 6.4 Reference to other sections For personal protection see se For disposal considerations se 7. Handling and storage 7.1 Precautions for safe handling	without creating dust. ection 8. ee section 13.	

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according to Regulation (EC) No.	1907/2006	
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	For personal protection see section a Dispose of rinse water in accordance regulations. Smoking, eating and drinking should application area.	e with local and national
Advice on protection against fire and explosion	 Avoid dust formation. Provide appropriate exhaust ventilat is formed. Take precautionary measures against 	
7.2 Conditions for safe storage, i	ncluding any incompatibilities	
Requirements for storage areas and containers	: Protect against light.	
	: Keep container tightly closed and dry	y.
Storage temperature	: 15 - 25 °C	
7.3 Specific end use(s)		
Specific use(s)	: Not applicable	

8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equip	nent
Respiratory protection	: In the case of dust or aerosol formation use respirator with an approved filter.
Hand protection	: Glove material: for example nitrile rubber
Eye protection	: Safety glasses with side-shields
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	 Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: powder
Colour	: white - off-white
Odour	: none
Odour Threshold	: No information available.
рН	: No data available

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Melting point/range	: 201 °C (Tested according to Direc	ctive 92/69/EEC.)
Boiling point/boiling range	: ca. 284,4 °C (at 1 021,7 hPa; Tes 92/69/EEC.)	
Flash point	: Not applicable	
Flammability (solid, gas)	: not highly flammable (Method: Fla	ammability (solids))
	May form combustible dust conce	
Vapour pressure	: not determined	
Relative vapour density	: Not applicable	
Density	: not determined	
Water solubility	: 151 g/l (ca. 20 °C; Tested accordi	ing to Directive 92/69/EEC.)
Partition coefficient: n- octanol/water	: log Pow -1,69 (ca. 21 °C; Tested 92/69/EEC.)	according to Directive
Auto-ignition temperature	: No data available	
Thermal decomposition	: Decomposes on heating. Potential for exothermic hazard	
Explosive properties	: Not explosive	
Oxidizing properties	: No data available	
Combustibility index for deposited dust	: 5 (23 °C)	
	: 5 (23 °C) : St(H)2 (Milled sample, Median va	
	0,040 mm, Loss on drying 0,6 %; in the modified Hartmann tube.)	The value was determined
Minimum ignition energy	 3 - 10 mJ (Milled sample, Mediar 0,040 mm, Loss on drying 0,6 %, The Minimum ignition energy (MII on the particle size the water cont the dust. The finer and the dryer t 	EN 13821) E) of a dust/air mix depends tent and the temperature of
	: General remark: The indicated du are only valid for this product and parameters.	
Powder volume resistivity	: 4E+11 Ohmm (Product sample, N sample 0,077 mm, Loss on dryin	
Minimum ignition	: 440 °C (Median value of the teste determined in the BAM oven	d sample 0,077 mm)
temperature of a dust/air mix		

10.1 Reactivity

No hazards to be specially mentioned.

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10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Dust may form explosive mixture in air.

10.4 Conditions to avoid

Heat.

10.5 Incompatible materials

Strong acids and strong bases Strong oxidizing agents

10.6 Hazardous decomposition products

No decomposition if used as directed.

11. Toxicological information

11.1 Information on toxicological effects

		6/9	MSDS GB/EN
STOT - repeated exposure	:	This information is not available.	
STOT - single exposure	:	The substance or mixture is not classified as sport organ toxicant, single exposure.	pecific target
Reproductive toxicity	:	No indication for adverse effects on fertility kno	wn.
Carcinogenicity	:	No indication for carcinogenicity known.	
Genotoxicity in vivo	:	not genotoxic (Mouse, Mutagenicity (micronucl	eus test))
Genotoxicity in vitro	:	not mutagenic (Ames test, OECD Test Guidelir	ne 471)
	:	no photoallergenic skin reaction (Guinea pig)	
Respiratory or skin sensitisation	:	The results of a test on guinea pigs showed this be a weak skin sensitiser. (Guinea pig, OECD 406)	
Serious eye damage/eye irritation	:	slight irritation (Rabbit, OECD Test Guideline 4	05)
Skin corrosion/irritation	:	No skin irritation (Rabbit, OECD Test Guideline Prolonged skin contact may cause skin irritation no phototoxic skin reaction (Guinea pig)	
Acute oral toxicity	:	LD50 (Rat): > 300 - < 500 mg/kg (OECD Test Guideline 423)	

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Aspiration toxicity	: No aspiration toxicity classification
Further information	: The product passes into and partly through the skin of pigs.
12. Ecological information	
12.1 Toxicity	
No data is available on the pro-	oduct itself.
12.2 Persistence and degradab	bility
Biodegradability	: Readily biodegradable. 81,15 % (28 d) (OECD Test Guideline 301F)
12.3 Bioaccumulative potentia	l i i i i i i i i i i i i i i i i i i i
Partition coefficient: n- octanol/water	: log Pow -1,69 (ca. 21 °C ; Tested according to Directive 92/69/EEC.)
12.4 Mobility in soil	
Distribution among environmental compartments	: No data available
12.5 Results of PBT and vPvB	assessment
Assessment	The substance does not fullfill the PBT criteria.The substance does not fullfill the vPvB criteria.
12.6 Other adverse effects	
Additional ecological information	: There is no data available for this product.
13. Disposal considerations	;
13.1 Waste treatment methods	
Product	 Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	: Dispose of as unused product. Do not re-use empty containers.
14. Transport information	
14.1 UN number ADR	
	7/9 MSDS_GB/EN

ADR Not dangerous goods RID Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods	
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14.3 Transport hazard class ADR Not dangerous goods RID Not dangerous goods IMDG Not dangerous goods	
ADR Not dangerous goods RID Not dangerous goods IMDG Not dangerous goods	
Not dangerous goods RID Not dangerous goods IMDG Not dangerous goods	
IMDG Not dangerous goods	
Not dangerous goods	
14.4 Packing group	
ADR Not dangerous goods RID	
Not dangerous goods IMDG	
Not dangerous goods IATA	
Not dangerous goods	
14.5 Environmental hazards	
ADR Not dangerous goods RID	
Not dangerous goods IMDG	
Not dangerous goods IATA	
Not dangerous goods	
14.6 Special precautions for user	
Not classified as dangerous in the meaning of transport regulations.	
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC	Code
No data available	

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rsion 4.0	Revision Date 16.01.2015
NFPA Classificatio	on : Health hazard: 2 Fire Hazard: 2 Reactivity Hazard: 1
2 Chemical Safety A	Assessment
-	Assessment is not required for this substance.
Other information	n
Full text of R-phra	ases referred to under sections 2 and 3
R22	Harmful if swallowed.
Full text of H-State	ements referred to under sections 2 and 3.
H302	Harmful if swallowed.
information and bel guidance for safe h is not to be conside specific material de	by b
Preparations Direct packaging of substa Effect Concentratio Transport Associati for Transport of Da International Carria	/548/EEC= Dangerous Substances Directive. 1999/45/EC= Dangerous tive. Regulation (EC) No. 1272/2008= Regulation on classification, labelling a ances and mixtures. DNEL= Derived No-Effect Level. PNEC= Predicted No- on. NFPA= National Fire Protection Association (USA). IATA= International Air ion. IMDG= International Maritime Dangerous Goods. RID= International Rule ingerous Substances by Railway; ADR= European Agreement concerning the age of Dangerous Goods by Road. TWA= Time Weighted Average. STEL= re limit. WEL = Workplace Exposure Limit.