Nouryon

SAFETY DATA SHEET

according to the Globally Harmonized System and US regulation

STRUCTURE XL

Versi	on 1	Revision Date 01/14/	2021	Print Date 0	1/21/2021	US / Z8
1. ID	ENTIFICAT	ION				
	Product nar	me	: ST	RUCTURE XL		
	Product Us	e Description	: Sp	ecific use(s):	Cosmetic additive	
	Company		13 [.] Ch US			
	Telephone Fax E-mail addr	ess		3009069977 3125447188		
	Emergency		: CA	NUTEC: +1 613-996-6	6666 CHEMTREC: +1 800-424	1-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	powder		
Color	white		
Odor	mild		
Hazard Summary	Risk of dust explosion.		
GHS Classification			
Combustible dust			
GHS label elements			
Signal Word	: Warning		
Hazard Statements	: If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.		
Carcinogenicity:			
IARC	 No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. 		

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OSHA		ponent of this product present at level 0.1% is on OSHA's list of regulated c	0
NTP	equal to	ponent of this product present at level 0.1% is identified as a known or antic gen by NTP.	0
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OMPOSITION/INFORMATION	ON INGREDIENTS	
Pure substance/mixture No hazardous ingredients	: Substance	
IRST AID MEASURES		
General advice	: No hazards which require special first aid measures.	
Inhalation	 Remove to fresh air. Keep patient warm and at rest. Rinse nose and mouth with water. 	
Skin contact	: Remove contaminated clothing and shoes. Rinse with water.	
Eye contact	 Rinse with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. 	
Ingestion	: Clean mouth with water and drink afterwards plenty of water Never give anything by mouth to an unconscious person.	r.
Notes to physician Symptoms	: The symptoms and effects are as expected from the hazard as shown in section 2. No specific product related symptoms are known.	
Risks	: No information available.	
Treatment	: Treat symptomatically.	
IRE-FIGHTING MEASURES		
Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Specific hazards during fire fighting / Specific hazards arising from the chemical	 Do not allow run-off from fire fighting to enter drains or wate courses. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges. 	
Combustion products	: Carbon oxides Phosphates	
Special protective equipment for fire-fighters	: In the event of fire, wear self-contained breathing apparatus	3.
Further information	: Collect contaminated fire extinguishing water separately. Th must not be discharged into drains.	nis

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Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

See also Section 9. Physical and chemical properties: Safety data

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency proceduresPersonal precautions: Avoid dust formation.				
Emergency measures on accidental release	Follow safe handling advice and personal protective equipment recommendations.			
Environmental precautions	Try to prevent the material from entering drains or water courses.			
Methods for cleaning up / Methods for containment	Sweep up and shovel. Keep in suitable, closed containers for disposal.			
Reference to other sections	For disposal considerations see section 13.			
	For personal protection see section 8.			

7. HANDLING AND STORAGE

Handling Advice on safe handling	 For personal protection see section 8. Avoid creating dust. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. No special handling advice required.
Advice on protection against fire and explosion	 Provide appropriate exhaust ventilation at places where dust is formed. No sparking tools should be used.
Dust explosion class	: St1
Storage Requirements for storage areas and containers	 Store in original container. Keep in a dry place. Store between 40-77°F (5-25°C). Keep container tightly closed.
Advice on common storage	: No special restrictions on storage with other products.
Other data	: No decomposition if stored and applied as directed.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Components	CAS-No.	Value	Control parameters	Update	Basis	Form of exposure
Dust		TWA	50 Million particles per cubic foot	2012-07-01	OSHA Z-3	total dust
	Further information	d: A liste san 1.	Assed on impinger sam All inert or nuisance dus ed specifically by substa ne as the Particulates N porf X 35.3 = million part	ts, whether miner ance name are co lot Otherwise Reg	al, inorganic, or vered by this lim gulated (PNOR)	organic, not it, which is the limit in Table Z-
Dust		TWÅ	15 mg/m3	2012-07-01	OSHA Z-3	total dust
	Further information	liste	Il inert or nuisance dus ed specifically by substa ne as the Particulates N	ance name are co	vered by this lim	it, which is the
Dust		TWA	5 mg/m3	2012-07-01	OSHA Z-3	respirable fraction
	Further information	liste	All inert or nuisance dus ed specifically by substa ne as the Particulates N	ance name are co	vered by this lim	it, which is the
Dust		TWA	15 Million particles per cubic foot	2012-07-01	OSHA Z-3	respirable fraction
	Further information	d: A liste san 1.	Based on impinger sam NI inert or nuisance dus ed specifically by substa ne as the Particulates N porf X 35.3 = million part	ts, whether miner ance name are co lot Otherwise Rec	al, inorganic, or vered by this lim gulated (PNOR)	organic, not it, which is the limit in Table Z-
Dust		PEL	10 mg/m3	2014-11-26	CAL PEL	Total dust
Dust		PEL	5 mg/m3	2014-11-26	CAL PEL	respirable dust fraction
	Further information	are cha sph 	The concentration and determined from the fra racteristics: Aerodynar ere)	action passing a s nic Diameter in M t Passing Selecto 	size selector with licrometers (unit r 0	the following density

Engineering measures

: Provide appropriate exhaust ventilation at places where dust is formed.

Personal protective equipment

Respiratory protection :	No personal respiratory protective equipment normally required. In the case of dust, vapor or aerosol formation use respirator with an approved filter. Half mask with a particle filter P2 (EN 143)
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Hand protection Material:For prolonged or repeated contact use protective gloves.Material:Protective gloves complying with EN 374.Eye protection:Safety glassesHygiene measures:General industrial hygiene practice.Environmental exposure controlsIndustrial hygiene practice.General advice:Try to prevent the material from entering drains or water courses.
Eye protection : Safety glasses Hygiene measures : General industrial hygiene practice. Environmental exposure controls General advice General advice : Try to prevent the material from entering drains or water
Hygiene measures : General industrial hygiene practice. Environmental exposure controls
Environmental exposure controls General advice : Try to prevent the material from entering drains or water
General advice : Try to prevent the material from entering drains or water
9. PHYSICAL AND CHEMICAL PROPERTIES
Appearance : powder
Color : white
Odor : mild
Odor Threshold : No data available
pH : 4.5 - 7 Concentration: 1 %
Melting point/freezing point : No data available
Boiling point/boiling range : Not applicable
Flash point : Not applicable
Evaporation rate : No data available
Flammability (solid, gas) : May form combustible dust concentrations in air during processing, handling or other means.
Flammability (liquids) : Not applicable
Self-ignition : No data available
Upper explosion limit / Upper : No data available flammability limit
Lower explosion limit / Lower : 125,000 mg/m3 flammability limit
Vapor pressure : Not applicable
Relative vapor density : Not applicable

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Relat	tive density	:	No data available	
Bulk	density	:	not determined	
	bility(ies) /ater solubility	:	soluble	
S	olubility in other solvents	:	No data available	
	tion coefficient: n- nol/water	:	No data available	
Autoi	gnition temperature	:	> 212 °F / > 100 °C	
Deco	mposition temperature	:	No data available	
Visco Vi	osity iscosity, dynamic	:	Not applicable	
Vi	iscosity, kinematic	:	Not applicable	
Explo	osive properties	:	Not explosive	
Oxidi	zing properties	:	The substance or mixture is not classified as oxidizing.	
Dust	deflagration index (Kst)	:	49 m.b_/s	
Dust	explosion class	:	St1	
Minin	num ignition energy	:	100 - 300 mJ	

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

10. STABILITY AND REACTIVITY

Conditions to avoid	: None known.
Materials to avoid	: None known.
Hazardous decomposition products	: No hazardous decomposition products are known.
Thermal decomposition	: No data available
Reactivity	: Stable under normal conditions.
Chemical stability	: Stable under recommended storage conditions.
Hazardous reactions	: Dust may form explosive mixture in air.

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11. TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION:

Hazard Summary Acute toxicity	:	Not classified based on available information.
Skin corrosion/irritation	:	Not classified based on available information.
Serious eye damage/eye	:	Not classified based on available information.
irritation Respiratory or skin sensitization	:	Respiratory sensitization: Not classified based on available information. Skin sensitization: Not classified based on available information.
Germ cell mutagenicity	:	Not classified based on available information.
Carcinogenicity	:	Not classified based on available information.
Reproductive toxicity	:	Not classified based on available information.
STOT-single exposure	:	Not classified based on available information.
STOT-repeated exposure	:	Not classified based on available information.
Aspiration hazard	:	Not classified based on available information.
Potential Health Effects Inhalation	:	Product dust may be irritating to respiratory system.
Skin	:	Product dust may be irritating to skin.
Eyes	:	Product dust may be irritating to eyes.
Ingestion	:	Not expected to be irritating.
Aggravated Medical Condition	:	None known.
Symptoms of Overexposure	:	The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.
Toxicology Assessment Further information	:	No further data available.
Test result Acute oral toxicity	:	LD50: Species: Rat No data available
Skin irritation	:	Species: Rabbit Result: No skin irritation Read-across (Analogy)

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Carcinogenicity: IARC OSHA NTP		equa huma : No c equa : No c equa	gredient of this product present at levels greater I to 0.1% is identified as probable, possible or co an carcinogen by IARC. Omponent of this product present at levels greate I to 0.1% is on OSHA's list of regulated carcinoge Omponent of this product present at levels greate I to 0.1% is identified as a known or anticipated mogen by NTP.	nfirmed er than or ens.
12. ECOLOGIO	CAL INFORMATION			
	INFORMATION:			
Ecotoxico Additional information	0	: None	e known.	
Test resul	lt			
	t y effects daphnia and other /ertebrates	Expo Spec	0: > 100 mg/l sure time: 48 h ies: Daphnia magna (Water flea) I-across (Analogy)	
Eliminatio Bioaccum	on information (pers		and degradability) ccumulation is unlikely.	
Mobility		: No d	ata available	
Biodegrad	ability		lt: Readily biodegradable. od: OECD Test Guideline 301D yes	
	formation on ecolo al Oxygen BOD)		ata available	
Hazardou Regulation Remarks	s to the ozone layer	: 40 C Strat : This Class	FR Protection of Environment; Part 82 Protection ospheric Ozone - CAA Section 602 Class I Subst product neither contains, nor was manufactured s I or Class II ODS as defined by the U.S. Clean on 602 (40 CFR 82, Subpt. A, App.A + B).	tances with a

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13. DISPOSA	AL CONSIDERATIONS		
Product	: '	Waste must be disposed of in accordance with fede	ral. state

and local environmental control regulations.

Contaminated packaging	 Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.
	nanaling site for recycling of disposal.

14. TRANSPORT INFORMATION

International Regulations

ADR

Not regulated as a dangerous good

UNRTDG Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Further information for transport

Not classified as dangerous in the meaning of transport regulations.

Domestic regulation

49 CFR Not regulated as a dangerous good TDG Not regulated as a dangerous good NOM-002-SCT Not regulated as a dangerous good

15. REGULATORY INFORMATION

Notification status

TCSI	YES. On the inventory, or in compliance with the inventory
AICS	YES. On the inventory, or in compliance with the inventory
DSL	YES. All components of this product are on the Canadian DSL
ENCS	YES. On the inventory, or in compliance with the inventory
ISHL	YES. On the inventory, or in compliance with the inventory
KECI	YES. On the inventory, or in compliance with the inventory
PICCS	YES. On the inventory, or in compliance with the inventory
IECSC	YES. On the inventory, or in compliance with the inventory
NZIoC	YES. On the inventory, or in compliance with the inventory
TSCA	YES. All chemical substances in this product are either listed on the
	TSCA Inventory or in compliance with a TSCA Inventory exemption.

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For explanation of abbreviations, see section 16.

TSCA list

TSCA 5(a)(2)	:	No substances are subject to a Significant New Use Rule.
TSCA 12(b)	:	No substances are subject to TSCA 12(b) export notification
		requirements.

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Combustible dust
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals subject to disclosure and listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307 This product does not contain any priority pollutants related to the U.S. Clean Water Act

Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Full text of other abbreviations

CAL PEL

California permissible exposure limits for chemical contaminants (Title 8, Article 107)

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OSHA Z-3		USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts	
CAL PEL / F OSHA Z-3 /		Permissible exposure limit 8-hour time weighted average	

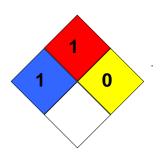
AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant: DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx -Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG -International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 -Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature: SDS - Safety Data Sheet: TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Further information

HMIS	Classific	ation	

- **NFPA Classification**
- : Health Hazard: 1 Fire Hazard: 1 Reactivity Hazard: 0

: Health Hazard: 1 Flammability: 2 Physical hazards: 0



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Notification status explanation

TCSI AICS	Taiwan Chemical Substance Inventory (TCSI) Australia Inventory of Chemical Substances (AICS)
DSL	Canadian Domestic Substances List (DSL)
ENCS	Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL	Japan. ISHL - Inventory of Chemical Substances
KECI	Korea. Korean Existing Chemicals Inventory (KECI)
PICCS	Philippines Inventory of Chemicals and Chemical Substances (PICCS)
IECSC	China. Inventory of Existing Chemical Substances in China (IECSC)
NZIoC	New Zealand. Inventory of Chemical Substances
TSCA	United States TSCA Inventory

Further information

Revision Date 01

The information in this safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. The user must determine the appropriate measures that need to be implemented for the use and handling of this product in the c ontext of the user's operations and use of this product. The information contained herein supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old,call to make certain that this sheet is current. No warranty is made as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. User must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. Nothing contained herein shall be construed as granting or extending any license under any patent.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.