Nouryon

SAFETY DATA SHEET

according to the Globally Harmonized System and US regulation

STRUCTURE ZEA

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1. IDEP	ITIFICATION				
Pr	oduct name	: STRUCT	URE ZEA		
Pr	oduct Use Description	: Specific	use(s):	Cosmetic additive	
	empany	131 Ś De	Surface Chen earborn St, Su IL 60603-5566 69977	ite 1000	
Fa	•	: +131254			
_	mail address nergency telephone	: : CANUTE	EC: +1 613-99	6-6666 CHEMTREC: +1 800-4	124-9300

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.
OSHA	: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	 No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated

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carcinogen by NTP.

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COMPOSITION/INFORMATION	ON INGREDIENTS
Pure substance/mixture No hazardous ingredients	: Substance
FIRST 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.
Notes to physician Symptoms	: The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.
Risks	: No information available.
Treatment	: Treat symptomatically.
FIRE-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 water 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.
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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.	Personal precautions	: Avoid dust formation.
Methods for cleaning up / Methods for containmentSweep up and shovel. Keep in suitable, closed containers for disposal.Reference to other sections: For disposal considerations see section 13.	• •	
Methods for containmentKeep in suitable, closed containers for disposal.Reference to other sections: For disposal considerations see section 13.	Environmental precautions	
·		
For personal protection see section 8.	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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components	CAS-No.	Value TWA		Control parameters	Update	Basis	Form of exposure	
Dust				50 Million particles per cubic foot	2011-07-01	OSHA Z-3	total dust	
	Further information	:	d: Al	l inert or nuisance dus	ples counted by light-field techniques. sts, whether mineral, inorganic, or organic, not ance name are covered by this limit, which is the			

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Dust		1.	e as the Particulates N cf X 35.3 = million part 15 mg/m3			
	Further information	liste	l inert or nuisance dus d specifically by substa e as the Particulates N	ance name are co	vered by this lim	it, which is the
Dust		TWA	5 mg/m3	2011-07-01	OSHA Z-3	respirable fraction
	Further information	liste	I inert or nuisance dus d specifically by substa e as the Particulates N	ance name are co	vered by this lim	iit, which is the
Dust		TWA	15 Million particles per cubic foot	2011-07-01	OSHA Z-3	respirable fraction
	Further information	d: Al liste sam 1.	ased on impinger samp I inert or nuisance dus d specifically by substa e as the Particulates N cf 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-

ACGIH: American Conference of Governmental Industrial Hygienists

BEI: Biological Exposure Index

MAC: Maximum Allowable Concentration

NIOSH: National Institute for Occupational Safety and Health

OEL: OEL: Occupational exposure limit.

STEL: Short term exposure limit

TWA: Time Weighted Average

Appropriate engineering controls

Provide appropriate exhaust ventilation at places where dust is formed.

Personal protective equipment

Eye/face protection	: Safety glasses
Hand protection	: Glove material: For prolonged or repeated contact use protective gloves.
	: Glove material: Protective gloves complying with EN 374.
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)
Hygiene measures	: General industrial hygiene practice.

Environmental exposure controls

General advice	: Try to prevent the material from entering drains or water	
	courses.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

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Form	: powder	
Color	: white	
Odor	: mild	
Odor Threshold	: No data available	
Safety data		
рН	: 4.5 - 7 at 1 % solution	
Melting point/freezing point	: No data available	
Boiling point/boiling range	: Not applicable	
Flash point	: Not applicable	
Ignition temperature	: >100 °C	
Evaporation rate	: Not applicable	
Flammability (solid, gas)	: Not classified as a flammability hazard May form combustible dust concentrations in air during processing, handling or other means.	
Flammability (liquids)	: Not applicable	
Lower explosion limit	: Not applicable	
Upper explosion limit	: Not applicable	
Vapor pressure	: Not applicable	
Relative vapor density	: Not applicable	
Relative density	: No data available	
Water solubility	: soluble	
Solubility in other solvents	: No data available	
Partition coefficient: n- octanol/water	: No data available	
Autoignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, dynamic	: at 20 °C Not applicable	
Viscosity, kinematic	: at 20 °C Not applicable	
Dust explosion class	: St1	
Dust deflagration index (Kst)	: 49 m.b_/s	

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	Explosive properties	:	Not explosive	
	Oxidizing properties	:	The substance or mixture is not classified as oxidizing.	
			nly contains information relating to safety and does not replace any pecification.	1
10. S	TABILITY 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.

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 irritation	: Not classified based on available information.
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.
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Ey	es	: Produ	ct dust may be irritating to eyes.	
Ing	gestion	: Not ex	pected to be irritating.	
	gravated Medical	: None	known.	
	mptoms of Overexposure		mptoms and effects are as expected fro own in section 2. No specific product relation.	
	exicology Assessment rther information	: No fur	ther data available.	
	st result			
Ac	ute oral toxicity		Species: Rat ta available	
Ca	rcinogenicity:			
IA	RC	equal	redient of this product present at levels to 0.1% is identified as probable, possib n carcinogen by IARC.	0
0	SHA	: No co	mponent of this product present at levels to 0.1% is on OSHA's list of regulated c	
N	ſP	: No cor equal	mponent of this product present at levels to 0.1% is identified as a known or antic ogen by NTP.	s greater than or

12. ECOLOGICAL INFORMATION

PRODUCT INFORMATION:

Ecotoxicology Assessment Additional ecological information	: None known.
Test result	
Ecotoxicity effects Toxicity to fish	: LC50: Exposure time: 96 h Species: Fish No data available
Elimination information (pers Bioaccumulation	sistence and degradability) : Bioaccumulation is unlikely.
Mobility	: No data available
Biodegradability	: Result: Readily biodegradable.

Further information on ecology

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Biochemica Demand (B	, .	No data available		
Hazardous	to the ozone layer			
Regulation	:		n of Environment; Part 82 Protection 602 Class I Si	
Remarks	:	This product neither Class I or Class II	er contains, nor was manufactur ODS as defined by the U.S. Cle FR 82, Subpt. A, App.A + B).	red with a

13. DISPOSAL CONSIDERATIONS	
Product	: Waste must be disposed of in accordance with federal, 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.

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

DSL	:	YES.	All components of this product are on the Canadian DSL
AICS	:	YES.	On the inventory, or in compliance with the inventory

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NZIoC		ory, or in compliance with the inventory	
ENCS	: YES. On the invent	ory, or in compliance with the inventory	
ISHL	: YES. On the invent	ory, or in compliance with the inventory	
KECI	: YES. On the invent	ory, or in compliance with the inventory	
PICCS	: YES. On the invent	ory, or in compliance with the inventory	
IECSC	: YES. On the invent	ory, or in compliance with the inventory	
TCSI	: YES. On the invent	ory, or in compliance with the inventory	
TSCA	: YES. All chemical s	substances in this product are either liste	ed on the
	TSCA Inventory or i	n compliance with a TSCA Inventory exe	emption.

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.

EPCRA - Emergency Planning and Community Right-to-Know

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 311/312 Hazards	:	Combustible dust
SARA 302	:	This material does not contain any components with a section 302 EHS TPQ.
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 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

16. OTHER INFORMATION

Full text of other abbreviations

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OSHA Z-3

USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts

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OSHA Z-3 / TWA

: 8-hour time weighted average

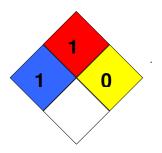
AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN -Standard of the German Institute 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 Classification	: Health Hazard: 1
	Flammability: 2
	Physical hazards: 0

NFPA Classification

: Health Hazard: 1 Fire Hazard: 1 Reactivity Hazard: 0



Notification status explanation

REACH	1907/2006 (EU)
DSL	Canadian Domestic Substances List (DSL)
AICS	Australia Inventory of Chemical Substances (AICS)
NZIoC	New Zealand. Inventory of Chemical Substances

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ENCS ISHL	Japan. ENCS - Existing and New Chemical Substances Inventory Japan. ISHL - Inventory of Chemical Substances		
KECI PICCS	Korea. Korean Existing Chemicals Inventory (KECI) Philippines Inventory of Chemicals and Chemical Substances (PICCS)		
IECSC TCSI TSCA	China. Inventory of Existing Chemical Substances in China (IECSC) Taiwan Chemical Substance Inventory (TCSI) United States TSCA Inventory		China (IECSC)

Further information

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noviolon Bato	01,02,2010

The information in this material 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.

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