Nouryon

SAFETY DATA SHEET

according to the Globally Harmonized System and US regulation

Levasil FX2040 N

Version 1 Revision Date 02		2/05/2018	5/2018 Print Date 01/31/2019		US / Z8
1. IDENTIFI	CATION				
Produc	t name	: Levasil F>	X2040 N		
Produc	t Use Description	: Specific u	ise(s):	Inorganic binder and modifier.	surface
Compa	ny	Chemicals	kway Place S		
	one address ency telephone	: +1770578 : +1770578 : psra.ppc@ : US CHEM	1359 Douryon.com ITREC +1-80	n 10-424-9300 Internat'l +1-7 CANADA CANUTEC +1-	

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	liquid
Color	translucent
Odor	slight

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

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 carcinogen by NTP.

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3. COMPOSITIO	ON/INFORMATION	ON	INGREDIENT	S	
Common N Pure subst	lame ance/mixture		Amorphous S Mixture	ilica, aqueous colloidal solu	ition.
Hazardous	s ingredients				
C	Chemical name		CAS-No.	Classification	Concentration [% W/W]
silicon dioxide		7	7631-86-9		>= 30 - < 50
4. FIRST AID M	EASURES				
General ad	lvice	: 1	No hazards w	hich require special first aid	d measures.
Inhalation				move person into fresh air persist, call a physician.	
Skin conta	ct		Remove cont Rinse with wa	aminated clothing and shoe ter.	95.
Eye contac	t	l	Rinse with ple Remove cont Protect unhar Keep eye wid	act lenses.	
Ingestion				with water and drink afterway	
Notes to p Symptoms		: 1	No information	n available.	
Risks		: 1	No information	n available.	
Treatment		: -	Treat sympto	matically.	
5. FIRE-FIGHTI	NG MEASURES				
Suitable ex	Suitable extinguishing media : Us		•	hing measures that are app s and the surrounding envir	•
fighting / S	zards during fire pecific hazards n the chemical	: 1	No hazards to	be specially mentioned.	

arising from the chemical	
Combustion products	: No hazardous combustion products are known
Special protective equipment for fire-fighters	: In the event of fire, wear self-contained breathing apparatus.
Further information	: Standard procedure for chemical fires.

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

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6. ACCIDEN	TAL RELEASE MEAS	SURES		
	al precautions, prote al precautions		nent and emergency procedures litions to be specially mentioned.	
0	ency measures on Ital release		afe handling advice and personal protec ent recommendations.	tive
Environr	mental precautions	: No spec	ial environmental precautions required.	
	s for cleaning up / s for containment	Keep in If liquid	with absorbent material (e.g. cloth, fleed suitable, closed containers for disposal. has been spilt in large quantities clean up r vacuum.	
Referen	ce to other sections	: For disp	osal 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. No special handling advice required.
Advice on protection against fire and explosion	: Normal measures for preventive fire protection.
Storage Requirements for storage areas and containers	: Keep container tightly closed in a dry and well-ventilated place. Store in closed dark containers made of anti-corrosive material.
Advice on common storage	: No special restrictions on storage with other products.
Minimum storage temperature:	: Avoid temperatures below: 5 °C (41 °F)
Maximum storage temperature:	: 35 °C (95 °F)
Other data	: No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Ingredients with workplace control parameters

Ingredients	CAS-No.	Value	Control parameters	Update	Basis	Form of exposure
silicon dioxide	7631-86-9	TWA	20 Million particles per cubic foot	2012-07-01	OSHA Z-3	Dust
	Further	: a: B	ased on impinger sam	oles counted by lig	ght-field techniqu	ies.

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	information		ppcf X 35.3 = million par ilica	ticles per cubic m	neter = particles p	per c.c
		TWA	80 mg/m3 / %SiO2	2012-07-01	OSHA Z-3	Dust
	Further information	: S	ilica	I	1	
		TWA	6 mg/m3	2013-10-08	NIOSH REL	
	Further information	: S	ilica			
		PEL	6 mg/m3	2014-11-26	CAL PEL	

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

Hazardous substance

Substance name	CAS-No.	Value	Control parameters	Basis	Update
silicon dioxide	7631-86-9	Immediately Dangerous to Life or Health Concentration Value	3000 mg/m3	US IDLH	1995-03-01
	Further information	: Immediately Dangerous to	Life or Health Concen	trations (IDLH)	

Appropriate engineering controls

Effective exhaust ventilation system

Personal protective equipment

Eye/face protection	: Safety glasses
Hand protection	: Glove material: PVC
	: Glove material: Rubber gloves
Respiratory protection	: No personal respiratory protective equipment normally required.
Hygiene measures	: General industrial hygiene practice.

Environmental exposure controls

General advice : No special environmental precautions required.

9. PHYSICAL AND CHEM	CAL PROPERTIES	
Appearance		
Form	: liquid	
Color	: translucent	
Odor	: slight	
Odor Threshold	: No data available	

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Safety data			
рН	: 9.1 - 9.9		
Melting point/range	: 0 °C		
Boiling point/boiling range	: 100 °C		
Flash point	: Not appli	cable	
Evaporation rate	: No data	available	
Flammability (solid, gas)	: Not appli	cable	
Flammability (liquids)	: The prod	uct is not flammable.	
Lower explosion limit	: Not appli	cable	
Upper explosion limit	: Not appli	cable	
Vapor pressure	: ca. 23 hF	Pa at 20 ℃	
Relative vapor density	: No data	available	
Relative density	: 1.3		
Water solubility	: dispersib	le	
Solubility in other solvents	: No data	available	
Partition coefficient: n- octanol/water	: Not appli	cable	
Autoignition temperature	: Not appli	cable	
Decomposition temperature	: No data	available	
Viscosity, dynamic	: < 50 mPa	a.s	
Viscosity, kinematic	: No data	available	
Explosive properties	: Not explo	osive	
Oxidizing properties	: Not class	ified as oxidizing.	

10. STABILITY AND REACTIVITY	·
Conditions to avoid	: Avoid allowing solution to dry as this can lead to a build-up of dust.
Materials to avoid	: Copper Mild steel Aluminum
Hazardous decomposition products	: No hazardous decomposition products are known.

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Thermal	decomposition	: No data	available	
Reactivit	у	: Stable u	inder normal conditions.	
Chemica	al stability	: Stable u	inder recommended storage conditions.	
Hazardo	us reactions	: No dang	erous reaction known under conditions	of normal use.

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	:	May cause respiratory tract irritation.
Skin	:	Causes mild skin irritation.
Eyes	:	May cause eye irritation.
Ingestion	:	May cause irritation of the mucous membranes.
Aggravated Medical Condition	:	None known.
Symptoms of Overexposure	:	No information available.
Toxicology Assessment Further information	:	Information given is based on data on the ingredients and the toxicology of similar products.

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Test resu Acute ora		: LD50: > Species:	5,000 mg/kg Rat	
		The value	e is estimated from tests on similar pro-	ducts.
Sensitiza	tion	Method:	Did not cause sensitization on laboratory (Magnusson-Kligman):	
		The value	e is estimated from tests on similar pro	ducts.
	Imutagenicity			
Genotoxi	city in vitro	: Ames tes Result: n		
			OECD Test Guideline 471	
		The value	e is estimated from tests on similar pro-	ducts.
Carcinog	enicity:			
IARC		equal to	dient of this product present at levels g 0.1% is identified as probable, possible arcinogen by IARC.	
OSHA		: No comp	oonent of this product present at levels 0.1% is on OSHA's list of regulated car	
NTP		equal to	oonent of this product present at levels 0.1% is identified as a known or anticip en by NTP.	

Test result

Component: silicon dioxide	
Acute oral toxicity	: LD50: > 10,000 mg/kg Species: Rat

12. ECOLOGICAL INFORMATION

PRODUCT INFORMATION:

Ecotoxicology Assessment Additional ecological

Additional ecological information	: None known.
Test result	
Ecotoxicity effects Toxicity to fish	: LC50: > 5,000 mg/l Exposure time: 96 h Species: Danio rerio (zebra fish) The value is estimated from tests on similar products.
Toxicity to daphnia and other aquatic invertebrates	: EC50: 7,600 mg/l Exposure time: 48 h Species: Ceriodaphnia dubia (water flea) The value is estimated from tests on similar products.

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Toxicity t	o algae	Specie The va	: 60 mg/l ure time: 48 h s: Selenastrum capricornutum (green algae) lue is estimated from tests on similar products. 120 mg/l	
		Exposi Specie	ure time: 48 h s: Selenastrum capricornutum (green algae) lue is estimated from tests on similar products.	
		Exposi Specie	140 mg/l ure time: 48 h s: Selenastrum capricornutum (green algae) lue is estimated from tests on similar products.	
Eliminat i Bioaccun	ion information (pers nulation		nd degradability) rumulation is not expected.	
Mobility			t results extreme circumstances, transport from earth to ke place.	o water
	Distribution among		ort to air is not expected.	
Biodegra	ental compartments dability	: Result: inorgar	Not applicable	
	nformation on ecolo ical Oxygen (BOD)		a available	
Hazardo Regulatio	us to the ozone laye	: 40 CFF	R Protection of Environment; Part 82 Protectior spheric Ozone - CAA Section 602 Class I Subs	
Remarks		: This pr Class I	oduct neither contains, nor was manufactured or Class II ODS as defined by the U.S. Clean n 602 (40 CFR 82, Subpt. A, App.A + B).	with a
INGREDI	ENTS:			
Ecotoxic	ology Assessment			
	ent: silicon dioxide al ecological on	: No dat	a available	
DISPOSA	L CONSIDERATIONS			
Contamir	nated packaging		remaining contents. containers should be taken to an approved wa	sta

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

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

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Ingredie	nts	CAS-No	Component RO

Ingredients	CAS-No.	Component RQ (lbs)
Ammonia	1336-21-6	1000 lbs

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards	No SARA Hazards	
SARA 302	This material does not contain any components with a section 302 EHS TPQ.	1
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).

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 toxic pollutants listed under the U.S. Clean Water Act Section 307 The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Ammonia 1336-21-6 0.1 - 1 % The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3: Ammonia 1336-21-6 0.1 - 1 %

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)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
CAL PEL / PEL	:	Permissible exposure limit
NIOSH REL / TWA		Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA Z-3 / TWA	:	8-hour time weighted average

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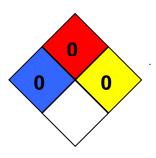
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AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled 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: 0 Chronic Health Hazard: / Flammability: 0 Physical hazards: 0
NFPA Classification	: Health Hazard: 0

Fire Hazard: 0 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
ENCS	Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL	Japan. ISHL - Inventory of Chemical Substances

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KECI	Korea. Korean	Existing Chemicals Inventory (KECI)		
PICCS	Philippines Inve (PICCS)	entory of Chemicals and Chemical Sub	ostances	
IECSC	China. Inventor	y of Existing Chemical Substances in	China (IECSC)	
TCSI Taiwan Chemical Substance Inventory (TCSI)				
TSCA	United States TSCA Inventory			

Further information

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