

according to the Hazardous Products Regulations

# Signature Xtra Stressgard

Vers 1.1	sion	Revision Date: 03/06/2024		DS Number: 310891-00002	Date of last issue: 12/14/2023 Date of first issue: 12/14/2023		
SECTION 1. IDENTIFICATION							
	Product	name	:	Signature Xtra St	ressgard		
	Product	code	:	Article/SKU: 8532 102000029598	23873 UVP: 81691088 Specification:		
	Other n	neans of identification	:	No data available			
	Manufa	acturer or supplier's o	deta	nils			
	Company name of supplier		:	2022 Environment	al Science CA Inc.		
	Address		:	137 Glasgow Street, Suite 210, Unit 111 Kitchener, Canada ON N2G 4X8			
	Telepho	ne	:	1-800-331-2867			
	Emerge	ency telephone	:	1-800-424-9300			
	Recommended use of the cl		hen	nical and restrictic	ons on use		
	Recom	mended use	:	Fungicide Plant protection a	gent		
	Restrict	tions on use	:	Not applicable			

#### SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations							
Eye irritation	:	Category 2B					
Reproductive toxicity	:	Category 1B					
GHS label elements							
Hazard pictograms	:						
Signal Word	:	Danger					
Hazard Statements	:	H320 Causes eye irritation. H360D May damage the unborn child.					
Precautionary Statements	:	<b>Prevention:</b> P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood.					

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				tective glo	ly after handling. ves, protective clothing, eye protection
			for several min to do. Continue P308 + P313 II	utes. Remo rinsing. Fexposed	N EYES: Rinse cautiously with water ove contact lenses, if present and easy or concerned: Get medical attention. on persists: Get medical attention.
			Storage: P405 Store loc	ked up.	
			<b>Disposal:</b> P501 Dispose disposal plant.	of contents	and container to an approved waste
	<b>r hazards</b> known.				
SECTION	3. COMPOSITIC	N/INFORM	ATION ON ING	REDIENTS	3
Subs	tance / Mixture	:	Mixture		
Cherr	nical nature	:	Water dispersit	ole granule	s (WG)
Com	ponents				
Cherr	nical name	Common	CAS-No	).	Concentration (% w/w)

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Fosetyl-aluminium	Aluminium tri- ethyl triphos- phonate	39148-24-8	>= 60 - < 80 *
2-Propanol, reaction products with naphtha- lene, sulfonated, sodi- um salts	Sodium diiso- propylnaphtha- lenesulphonate	1322-93-6	>= 5 - < 10 *
Formic acid	Methanoic Acid	64-18-6	>= 1 - < 2 *
N-Methyl-2-pyrrolidone	1- Methylpyrroli- dinone	872-50-4	>= 0.1 - < 1 *

Actual concentration or concentration range is withheld as a trade secret

#### SECTION 4. FIRST AID MEASURES

General advice	<ul> <li>In the case of accident or if you feel unwell, seek medical ad- vice immediately.</li> </ul>
If inhaled	<ul><li>When symptoms persist or in all cases of doubt seek medical advice.</li><li>If inhaled, remove to fresh air.</li></ul>
	Get medical attention.

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In case of skin contact		In case of contact, immediately flush skin with soap and of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.				
In case of eye contact	for If e	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.				
If swallowed	Ge	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.				
Most important symptoms and effects, both acute and delayed	Th bra Ca Ma	The following symptoms may occur: The product causes irritation of eyes, skin and mucous me branes. Causes eye irritation. May damage the unborn child. This product is not a cholinesterase inhibitor.				
Protection of first-aiders	an	d use the recom	ers should pay attention to self-protection, nmended personal protective equipment I for exposure exists (see section 8).			
Notes to physician	Tre Ga ca nis Ap	eat symptomatic astric lavage is r nt amount (more ster activated ch ppropriate suppo	ic antidote available. cally. not normally required. However, if a signifi- e than a mouthful) has been ingested, admi- narcoal and sodium sulphate. ortive and symptomatic treatment as indica- s condition is recommended.			

#### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Oxides of phosphorus Metal oxides Sulfur oxides Chlorine compounds Nitrogen oxides (NOx)

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	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray to	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ed containers from fire area if it is safe to do
	Special for fire-f	protective equipment fighters	:	In the event of fire Use personal prot	, wear self-contained breathing apparatus. ective equipment.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Sweep up or vacuum up spillage and collect in suitable con- tainer for disposal. Local or national regulations may apply to releases and dispo- sal of this material, as well as those materials and items em- ployed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

#### SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Take care to prevent spills, waste and minimize release to the environment.

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С	onditions for safe storage	:	Store locked up. Keep tightly close	abeled containers. d. ce with the particular national regulations.	
Materials to avoid			<ul> <li>Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases</li> </ul>		
	ecommended storage tem- erature	:	0 - 35 °C		

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Fosetyl-aluminium	39148-24-8	TŴA	2 mg/m <sup>3</sup> (Aluminum)	CA AB OEL
		TWAEV (respirable dust)	5 mg/m³	CA QC OEL
Formic acid	64-18-6	TWA	5 ppm 9.4 mg/m³	CA AB OEL
		STEL	10 ppm 19 mg/m <sup>3</sup>	CA AB OEL
		TWA	5 ppm	CA BC OEL
		STEL	10 ppm	CA BC OEL
		TWAEV	5 ppm 9.4 mg/m <sup>3</sup>	CA QC OEL
		STEV	10 ppm 19 mg/m <sup>3</sup>	CA QC OEL
		TWA	5 ppm	ACGIH
		STEL	10 ppm	ACGIH
N-Methyl-2-pyrrolidone	872-50-4	TWA	400 mg/m <sup>3</sup>	CA ON OEL

#### Ingredients with workplace control parameters

#### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
N-Methyl-2-pyrrolidone	872-50-4	5-Hydroxy- N-methyl-2- pyrrolidone	Urine	End of shift (As soon as possible after exposure ceases)	100 mg/l	ACGIH BEI

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E	ngineering measures	:		ce exposure concentrations. tion is unavailable, use with local exhaust			
Р	ersonal protective equipm	ent					
R	espiratory protection	:	If adequate local exhaust ventilation is not available or ex sure assessment demonstrates exposures outside the re- commended guidelines, use respiratory protection.				
	Filter type	:	Combined particu	lates and organic vapor type			
Н	land protection Material Break through time Glove thickness Protective index	:	Nitrile rubber > 480 min > 0.4 mm Class 6				
	Remarks	:	breakthrough time gloves. Also take ons under which cuts, abrasion, ar Choose gloves to on the concentrat applications, we i micals of the afore	he instructions regarding permeability and e which are provided by the supplier of the into consideration the specific local conditi- the product is used, such as the danger of ad the contact time. In protect hands against chemicals depending ion specific to place of work. For special recommend clarifying the resistance to che- ementioned protective gloves with the glove ash hands before breaks and at the end of			
E	ye protection	:	Wear the following Safety goggles	g personal protective equipment:			
S	kin and body protection	:	resistance data a potential. Skin contact mus	e protective clothing based on chemical nd an assessment of the local exposure t be avoided by using impervious protective aprons, boots, etc).			
Н	lygiene measures	:	eye flushing systeking place. When using do no	emical is likely during typical use, provide ems and safety showers close to the wor- ot eat, drink or smoke. ed clothing before re-use.			

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

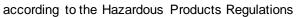
Appearance	:	granules
11		0

Color



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	Odor		:	acidic, slight	
	Odor Th	nreshold	:	No data available	
	рН		:	3.1 - 5.0 (23 °C) Concentration: 10	) %
	Melting	point/freezing point	:	No data available	
	Initial b range	oiling point and boiling	:	No data available	
	Flash p	oint	:	Not applicable	
	Evapora	ation rate	:	Not applicable	
	Flamma	ability (solid, gas)	:	Not classified as	a flammability hazard
	Self-ign	ition	:		on (EC) No. 440/2008, Annex, A.16 mixture is not classified as self heating.
		explosion limit / Upper bility limit	:	Not applicable	
		explosion limit / Lower bility limit	:	Not applicable	
	Vapor p	pressure	:	Not applicable	
	Relative	e vapor density	:	Not applicable	
	Relative	e density	:	No data available	
	Bulk de	ensity	:	705 kg/m³	
	Solubili Wat	ty(ies) er solubility	:	dispersible	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Autoign	ition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive Method: Regulation	on (EC) No. 440/2008, Annex, A.14





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Oxidiz	zing properties	: The substance	or mixture is not classified as oxidizing.
Dust e	explosion class	: No data availat	ble
	le characteristics le size	: No data availat	ble

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Can react with strong oxidizing agents.
Conditions to avoid	:	None known.
Incompatible materials	:	Strong oxidizing agents Strong acids and strong bases
		Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

#### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely route Skin contact Ingestion Eye contact	s of exposure
Acute toxicity Not classified based on avai	able information.
Product:	
Acute oral toxicity	: LD50 (Rat, female): > 5,000 mg/kg
Acute inhalation toxicity	: LC50 (Rat): > 5.22 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	: LD50 (Rat): > 5,000 mg/kg
0	

#### Components:

Fosetyl-aluminium:

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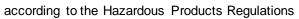


Acute oral toxicity       :       LD50 (Rat): > 5.11 mg/l         Exposure time: 4 h       Test atmosphere: dust/mist         Assessment: The substance or mixture has no acute int         tion toxicity       :         Acute oral toxicity       :         Acute dermal toxicity       :         Acute oral toxicity       :         D50 (Rat): > 453 - 1,368 mg/kg         Method: OECD Test Guideline 401         Acute oral toxicity       :         LD50 (Rat): > 453 - 1,368 mg/kg         Method: OECD Test Guideline 401         Acute oral toxicity       :         LD50 (Rat): 730 mg/kg         Remarks: Based on data from similar materials         Formic acid:         Acute oral toxicity       :         Acute oral toxicity       :         LD50 (Rat): 730 mg/kg         Acute oral toxicity       :         LD50 (Rat): 7.35 mg/l         Exposure time: 4 h         Test atmosphere: wapor         Method: OECD Test Guideline 403         Acute oral toxicity       : <t< th=""><th>/ersion .1</th><th>Revision Date: 03/06/2024</th><th>SDS Number: 11310891-00002</th><th>Date of last issue: 12/14/2023 Date of first issue: 12/14/2023</th></t<>	/ersion .1	Revision Date: 03/06/2024	SDS Number: 11310891-00002	Date of last issue: 12/14/2023 Date of first issue: 12/14/2023
Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute ini tion toxicityAcute dermal toxicity: LD50 (Rat): > 2,000 mg/kg2-Propanol, reaction products with naphthalene, sulfonated, sodium salts: Acute oral toxicity: LD50 (Rat): > 453 - 1,368 mg/kg Method: OECD Test Guideline 401Acute inhalation toxicity: LC50 (Rat, male): 1,09 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403Acute dermal toxicity: LC50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materialsFormic acid: Acute oral toxicity: LD50 (Rat): 730 mg/kg Method: OECD Test Guideline 401Acute inhalation toxicity: LC50 (Rat): 7.85 mg/l Exposure time: 4 h 	Acute	e oral toxicity	: LD50 (Rabbit)	: 2,680 mg/kg
2-Propanol, reaction products with naphthalene, sulfonated, sodium salts:         Acute oral toxicity       :       LDS0 (Rat): > 453 - 1,368 mg/kg Method: OECD Test Guideline 401         Acute inhalation toxicity       :       LCS0 (Rat, male): 1.09 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403         Acute dermal toxicity       :       LDS0 (Rabbit, male): > 2,000 mg/kg Remarks: Based on data from similar materials         Formic acid:       :       .         Acute oral toxicity       :       LDS0 (Rat): 730 mg/kg Method: OECD Test Guideline 401         Acute oral toxicity       :       LDS0 (Rat): 7.85 mg/l Exposure time: 4 h Test atmosphere: vapor Method: OECD Test Guideline 403 Assessment: Corrosive to the respiratory tract.         Acute dermal toxicity       :       LDS0 (Rat): 2,000 mg/kg Remarks: Based on data from similar materials         Mutehyl-2-pyrrolidone:       :       LDS0 (Rat): > 2,000 mg/kg         Acute oral toxicity       :       LDS0 (Rat): 4,150 mg/kg         Acute inhalation toxicity       :       LDS0 (Rat): > 5,000 mg/kg         Acute inhalation toxicity       :       LDS0 (Rat): > 5,000 mg/kg         Acute inhalation toxicity       :       LDS0 (Rat): > 5,000 mg/kg         Acute inhalation toxicity       :       LDS0 (Rat): > 5,000 mg/kg         Acute oral toxicity       :       LDS0 (Rat): > 5,000 mg/kg	Acute	inhalation toxicity	Exposure time Test atmosph Assessment:	e: 4 h ere: dust/mist
Acute oral toxicity:LD50 (Rat): > 453 - 1,368 mg/kg Method: OECD Test Guideline 401Acute inhalation toxicity:LC50 (Rat, male): 1.09 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403Acute dermal toxicity:LD50 (Rabbit, male): > 2,000 mg/kg Remarks: Based on data from similar materialsFormic acid: Acute oral toxicity:LD50 (Rat): 730 mg/kg Method: OECD Test Guideline 401Acute oral toxicity:LD50 (Rat): 730 mg/kg Method: OECD Test Guideline 401Acute inhalation toxicity:LC50 (Rat): 7.85 mg/l Exposure time: 4 h Test atmosphere: vapor Method: OECD Test Guideline 403 Assessment: Corrosive to the respiratory tract.Acute dermal toxicity:LD50 (Rat): 2,000 mg/kg Remarks: Based on data from similar materialsMethod: OECD Test Guideline 403 Assessment: Corrosive to the respiratory tract.Acute dermal toxicity:LD50 (Rat): 2,000 mg/kg Remarks: Based on data from similar materialsMethod: OECD Test Guideline 403 Assessment: Corrosive to the respiratory tract.Acute oral toxicity:LD50 (Rat): 3,11 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403Acute inhalation toxicity:LD50 (Rat): 2,000 mg/kgAcute oral toxicity:LD50 (Rat): 3,11 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403Acute dermal toxicity:LD50 (Rat): > 5,000 mg/kgAcute dermal toxicity:LD50 (Rat): > 5,000 mg/kgSkin corrosion/irritation:LD50 (Rat): > 5,000 mg/kg <td>Acute</td> <td>e dermal toxicity</td> <td>: LD50 (Rat): &gt;</td> <td>2,000 mg/kg</td>	Acute	e dermal toxicity	: LD50 (Rat): >	2,000 mg/kg
Method: OECD Test Guideline 401         Acute inhalation toxicity       :       LC50 (Rat, male): 1.09 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403         Acute dermal toxicity       :       LD50 (Rabbit, male): > 2,000 mg/kg Remarks: Based on data from similar materials         Formic acid:       .         Acute oral toxicity       :       LD50 (Rat): 730 mg/kg Method: OECD Test Guideline 401         Acute oral toxicity       :       LD50 (Rat): 7.85 mg/l Exposure time: 4 h Test atmosphere: vapor Method: OECD Test Guideline 403 Assessment: Corrosive to the respiratory tract.         Acute dermal toxicity       :       LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials         Methyl-2-pyrrolidone:       .       .         Acute oral toxicity       :       LD50 (Rat): + 0.100 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 1.000 mg/kg         Remarks: Based on data from similar materials       .         Methyl-2-pyrrolidone:       .         Acute oral toxicity       :       LD50 (Rat): + 0.100 mg/kg         Acute inhalation toxicity       :       LD50 (Rat): e.100 mg/kg         Acute inhalation toxicity       :       LD50 (Rat): - 0.100 mg/kg         Acute oral toxicity       :       LD50 (Rat): - 5.11 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403	2-Pro	panol, reaction prod	ucts with naphthale	ene, sulfonated, sodium salts:
Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403Acute dermal toxicity:LD50 (Rabbit, male): > 2,000 mg/kg Remarks: Based on data from similar materialsFormic acid: Acute oral toxicity:LD50 (Rat): 730 mg/kg Method: OECD Test Guideline 401Acute inhalation toxicity:LC50 (Rat): 7.85 mg/l Exposure time: 4 h Test atmosphere: vapor Method: OECD Test Guideline 403 Assessment: Corrosive to the respiratory tract.Acute dermal toxicity:LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materialsN-Methyl-2-pyrrolidone: Acute oral toxicity:LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materialsN-Methyl-2-pyrrolidone: Acute oral toxicity:LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materialsAcute oral toxicity:LD50 (Rat): > 5,1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403Acute inhalation toxicity:LC50 (Rat): > 5,1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403Acute dermal toxicity:LD50 (Rat): > 5,000 mg/kgAcute dermal toxicity:LD50 (Rat): > 5,000 mg/kgAcute dermal toxicity:LD50 (Rat): > 5,000 mg/kgAcute dermal toxicity:LD50 (Rat): > 5,000 mg/kg	Acute	e oral toxicity		
Remarks: Based on data from similar materialsFormic acid:Acute oral toxicity: LD50 (Rat): 730 mg/kg Method: OECD Test Guideline 401Acute inhalation toxicity: LC50 (Rat): 7.85 mg/l Exposure time: 4 h Test atmosphere: vapor Method: OECD Test Guideline 403 Assessment: Corrosive to the respiratory tract.Acute dermal toxicity: LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materialsN-Methyl-2-pyrrolidone: Acute oral toxicity: LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materialsAcute inhalation toxicity: LD50 (Rat): > 5,1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403Acute dermal toxicity: LD50 (Rat): > 5,000 mg/kgAcute dermal toxicity: LD50 (Rat): > 5,000 mg/kgAcute dermal toxicity: LD50 (Rat): > 5,000 mg/kgMethod: OECD Test Guideline 403Acute dermal toxicity: LD50 (Rat): > 5,000 mg/kgMethod: OECD Test Guideline 403Acute dermal toxicity: LD50 (Rat): > 5,000 mg/kg	Acute	e inhalation toxicity	Exposure time Test atmosph	e: 4 h ere: dust/mist
Acute oral toxicity:LD50 (Rat): 730 mg/kg Method: OECD Test Guideline 401Acute inhalation toxicity:LC50 (Rat): 7.85 mg/l Exposure time: 4 h Test atmosphere: vapor Method: OECD Test Guideline 403 Assessment: Corrosive to the respiratory tract.Acute dermal toxicity:LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materialsN-Methyl-2-pyrrolidone: 	Acute	e dermal toxicity		
Method: OECD Test Guideline 401         Acute inhalation toxicity       :       LC50 (Rat): 7.85 mg/l Exposure time: 4 h Test atmosphere: vapor Method: OECD Test Guideline 403 Assessment: Corrosive to the respiratory tract.         Acute dermal toxicity       :       LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials         N-Methyl-2-pyrrolidone:       .         Acute oral toxicity       :       LD50 (Rat): 4,150 mg/kg         Acute oral toxicity       :       LC50 (Rat): > 5.1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403         Acute dermal toxicity       :       LD50 (Rat): > 5.1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403         Acute dermal toxicity       :       LD50 (Rat): > 5,000 mg/kg         Skin corrosion/irritation       :       LD50 (Rat): > 5,000 mg/kg	Form	ic acid:		
Exposure time: 4 h Test atmosphere: vapor Method: OECD Test Guideline 403 Assessment: Corrosive to the respiratory tract.Acute dermal toxicity:LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materialsN-Methyl-2-pyrrolidone: Acute oral toxicity:LD50 (Rat): 4,150 mg/kgAcute oral toxicity:LD50 (Rat): 4,150 mg/kgAcute inhalation toxicity:LC50 (Rat): > 5.1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403Acute dermal toxicity:LD50 (Rat): > 5,000 mg/kgAcute dermal toxicity:LD50 (Rat): > 5,000 mg/kgAcute dermal toxicity:LD50 (Rat): > 5,000 mg/kgAcute dermal toxicity:LD50 (Rat): > 5,000 mg/kg	Acute	e oral toxicity		
Remarks: Based on data from similar materials         N-Methyl-2-pyrrolidone:         Acute oral toxicity       :         LD50 (Rat): 4,150 mg/kg         Acute inhalation toxicity       :         LC50 (Rat): > 5.1 mg/l         Exposure time: 4 h         Test atmosphere: dust/mist         Method: OECD Test Guideline 403         Acute dermal toxicity       :         LD50 (Rat): > 5,000 mg/kg         Skin corrosion/irritation         Not classified based on available information.	Acute	e inhalation toxicity	Exposure time Test atmosph Method: OEC	e: 4 h ere: vapor D Test Guideline 403
Acute oral toxicity       : LD50 (Rat): 4,150 mg/kg         Acute inhalation toxicity       : LC50 (Rat): > 5.1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403         Acute dermal toxicity       : LD50 (Rat): > 5,000 mg/kg         Skin corrosion/irritation Not classified based on available information.	Acute	e dermal toxicity	· · ·	
Acute inhalation toxicity       :       LC50 (Rat): > 5.1 mg/l         Exposure time: 4 h       Test atmosphere: dust/mist         Method: OECD Test Guideline 403         Acute dermal toxicity       :       LD50 (Rat): > 5,000 mg/kg         Skin corrosion/irritation         Not classified based on available information.	N-Me	thyl-2-pyrrolidone:		
Exposure time: 4 h         Test atmosphere: dust/mist         Method: OECD Test Guideline 403         Acute dermal toxicity       :         LD50 (Rat): > 5,000 mg/kg         Skin corrosion/irritation         Not classified based on available information.	Acute	e oral toxicity	: LD50 (Rat): 4	,150 mg/kg
Skin corrosion/irritation Not classified based on available information.	Acute	inhalation toxicity	Exposure time Test atmosph	e: 4 h ere: dust/mist
Not classified based on available information.	Acute	e dermal toxicity	: LD50 (Rat): >	5,000 mg/kg
			ilable information.	
Product:				
Species:RabbitResult:No skin irritation				on



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rsion	Revision Date: 03/06/2024	SDS Number: 11310891-00002	Date of last issue: 12/14/2023 Date of first issue: 12/14/2023
Comr	oonents:		
		-	ne, sulfonated, sodium salts:
Speci Resul		: Rabbit : No skin irritatio	n
Form	ic acid:		
Resul	-		3 minutes or less of exposure
Rema	ırks	: Based on natio	nal or regional regulation.
N-Me	thyl-2-pyrrolidone:		
Resul		: Skin irritation	
	us eye damage/eye	irritation	
	es eye irritation.		
Produ			
Speci Resul		: Rabbit	a reversing within 7 days
Resu	l	: initiation to eye	es, reversing within 7 days
<u>Comp</u>	oonents:		
Foset	yl-aluminium:		
Resul	-	: Irreversible effe	
Rema	rks	: Based on natio	nal or regional regulation.
2-Pro	panol, reaction proc	lucts with naphthale	ne, sulfonated, sodium salts:
Speci		: Rabbit	-,
Resul		: Irreversible effe	ects on the eye
<b>F</b>			
Form Resul	ic acid: •	: Irreversible effe	acts on the eve
Rema	-	: Irreversible effe : Based on skin	-
N-Me	thyl-2-pyrrolidone:		
Speci		: Rabbit	
Resul	t	: Irritation to eye	es, reversing within 21 days
Respi	iratory or skin sensit	tization	
Skin	sensitization		
-	assified based on ava	ailable information.	
Posni	ratory sensitization		
ILC Shi			





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	Produce Routes Species Result	of exposure	:	Skin contact Guinea pig negative	
	Compo	onents:			
	Formic	acid:			
	Test Ty Routes Species Method Result	of exposure s		Buehler Test Skin contact Guinea pig OECD Test Guide negative	line 406
	N-Meth	yl-2-pyrrolidone:			
	Test Ty	of exposure s		Local lymph node Skin contact Mouse OECD Test Guide negative Based on data fro	
		<b>cell mutagenicity</b> ssified based on availa	able	information.	
	<u>Compo</u>	onents:			
	-	anol, reaction produce xicity in vitro	cts :	-	<b>sulfonated, sodium salts:</b> ial reverse mutation assay (AMES) est Guideline 471
				Test Type: In vitro Method: OECD Te Result: negative	mammalian cell gene mutation test est Guideline 476
				Test Type: Chrom Method: OECD Te Result: negative	osome aberration test in vitro est Guideline 473
	Formic	acid:			
		xicity in vitro	:	Test Type: Bacter Method: OECD Te Result: negative	ial reverse mutation assay (AMES) est Guideline 471
	Genoto	xicity in vivo	:	Test Type: Sex-lir anogaster (in vivo) Application Route Method: OECD Te Result: negative	: Ingestion

according to the Hazardous Products Regulations



rsion	Revision Date: 03/06/2024	SDS Number: 11310891-00002	Date of last issue: 12/14/2023 Date of first issue: 12/14/2023
N-Met	hyl-2-pyrrolidone:		
	oxicity in vitro		acterial reverse mutation assay (AMES) CD Test Guideline 471 tive
			n vitro mammalian cell gene mutation test CD Test Guideline 476 tive
			NA damage and repair, unscheduled DNA syn- nmalian cells (in vitro) tive
Genoto	oxicity in vivo	cytogenetic a Species: Mou Application R	use Route: Ingestion CD Test Guideline 474
			CD Test Guideline 475
	n <b>ogenicity</b> assified based on av	Method: OEC Result: negat	CD Test Guideline 475
Not cla	• •	Method: OEC Result: negat	CD Test Guideline 475
Not cla <u>Comp</u>	assified based on ava onents:	Method: OEC Result: negat	CD Test Guideline 475
Not cla <u>Comp</u> Fosety	assified based on ava onents: yl-aluminium:	Method: OEC Result: negat	CD Test Guideline 475
Not cla <u>Comp</u> Fosety Specie	assified based on ava onents: yl-aluminium:	Method: OEC Result: negat	CD Test Guideline 475
Not cla <u>Comp</u> Fosety Specie Applica Expos	assified based on ava <b>conents:</b> yl-aluminium: es ation Route ure time	Method: OEC Result: negat ailable information. : Dog : Ingestion : 2 Years	CD Test Guideline 475
Not cla <u>Comp</u> Fosety Specie Applica	assified based on ava <b>conents:</b> yl-aluminium: es ation Route ure time	Method: OEC Result: negat ailable information. : Dog : Ingestion	CD Test Guideline 475
Not cla <u>Comp</u> Fosety Specie Applica Expos Result	assified based on ava <b>conents:</b> yl-aluminium: es ation Route ure time	Method: OEC Result: negat ailable information. : Dog : Ingestion : 2 Years	CD Test Guideline 475
Not cla <u>Comp</u> Fosety Specie Applica Expos Result	assified based on ava <b>conents:</b> <b>yl-aluminium:</b> es ation Route ure time <b>c acid:</b>	Method: OEC Result: negat ailable information. : Dog : Ingestion : 2 Years	CD Test Guideline 475
Not cla <u>Comp</u> Fosety Specie Applica Expos Result Formic Specie Applica	assified based on aver onents: yl-aluminium: es ation Route ure time c acid: es ation Route	Method: OEC Result: negat ailable information. : Dog : Ingestion : 2 Years : negative : Rat : Ingestion	CD Test Guideline 475
Not cla <u>Comp</u> Fosety Specie Applica Expos Result Formic Specie Applica Expos	assified based on aver onents: yl-aluminium: es ation Route ure time c acid: es ation Route ure time	Method: OEC Result: negat ailable information. : Dog : Ingestion : 2 Years : negative : Rat : Ingestion : 104 weeks	CD Test Guideline 475
Not cla Comp Fosety Specie Applica Expos Result Formic Specie Applica Expos Result	assified based on aver onents: yl-aluminium: es ation Route ure time c acid: es ation Route ure time	Method: OEC Result: negat ailable information. : Dog : Ingestion : 2 Years : negative : Rat : Ingestion : 104 weeks : negative	CD Test Guideline 475 tive
Not cla <u>Comp</u> Fosety Specie Applica Expos Result Formic Specie Applica Expos	assified based on aver onents: yl-aluminium: es ation Route ure time c acid: es ation Route ure time	Method: OEC Result: negat ailable information. : Dog : Ingestion : 2 Years : negative : Rat : Ingestion : 104 weeks : negative	CD Test Guideline 475
Not cla <u>Comp</u> Fosety Specie Applica Expos Result Formic Specie Applica Expos Result Remar	assified based on aver onents: yl-aluminium: es ation Route ure time c acid: es ation Route ure time	Method: OEC Result: negat ailable information. : Dog : Ingestion : 2 Years : negative : Rat : Ingestion : 104 weeks : negative	CD Test Guideline 475 tive
Not cla <u>Comp</u> Fosety Specie Applica Expos Result Formic Specie Applica Expos Result Remar	assified based on aver onents: yl-aluminium: es ation Route ure time to acid: es ation Route ure time trks hyl-2-pyrrolidone:	Method: OEC Result: negat ailable information. : Dog : Ingestion : 2 Years : negative : Rat : Ingestion : 104 weeks : negative	CD Test Guideline 475 tive
Not cla <u>Comp</u> Fosety Specie Applica Expos Result Formic Specie Applica Expos Result Remar N-Meth Specie	assified based on aver onents: yl-aluminium: es ation Route ure time ation Route ure time rks hyl-2-pyrrolidone: es ation Route	Aethod: OEC Result: negation ailable information. : Dog : Ingestion : 2 Years : negative : Rat : Ingestion : 104 weeks : negative : Based on dat : Rat : Ingestion	CD Test Guideline 475 tive
Not cla <u>Comp</u> Fosety Specie Applica Expos Result Formic Specie Applica Expos Result Remar N-Mett Specie Applica Expos	assified based on aver onents: yl-aluminium: es ation Route ure time it c acid: es ation Route ure time rks hyl-2-pyrrolidone: es ation Route ure time	Method: OEC Result: negation ailable information. : Dog : Ingestion : 2 Years : negative : Rat : Ingestion : 104 weeks : negative : Based on dat : Rat : Ingestion : 2 Years	CD Test Guideline 475 tive
Not cla <u>Comp</u> Fosety Specie Applica Expos Result Formic Specie Applica Expos Result Remar N-Meth Specie	assified based on aver onents: yl-aluminium: es ation Route ure time trks hyl-2-pyrrolidone: es ation Route ure time trks	Aethod: OEC Result: negation ailable information. : Dog : Ingestion : 2 Years : negative : Rat : Ingestion : 104 weeks : negative : Based on dat : Rat : Ingestion	CD Test Guideline 475 tive

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	Applicat Exposu Result	tion Route re time	:	inhalation (vapor) 2 Years negative	
	-	l <b>uctive toxicity</b> mage the unborn child	-		
	<u>Compo</u>	<u>nents:</u>			
	Fosetyl	-aluminium:			
	Effects	on fertility	:	Test Type: Four-ge Species: Rat Application Route: Result: negative	eneration reproduction toxicity study
	2-Propa	anol, reaction produc	ts v	vith naphthalene,	sulfonated, sodium salts:
	-	on fertility	:	Test Type: Combin	ned repeated dose toxicity study with the opmental toxicity screening test
	Effects	on fetal development	:		
	Formic	acid:			
		on fertility	:	Species: Rat Application Route: Method: OECD Te Result: negative	
	Effects	on fetal development	:	Species: Rabbit Application Route: Method: OECD Te Result: negative	•
	N-Meth	yl-2-pyrrolidone:			
		on fertility	:	Test Type: Two-ge Species: Rat Application Route: Method: OECD Te Result: negative	

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Effec	Effects on fetal development		Species: Rat Application Rout	ryo-fetal development e: Ingestion Test Guideline 414
			Species: Rat	ity/early embryonic development e: inhalation (vapor)
			Test Type: Emb Species: Rabbit Application Rout Result: positive	ryo-fetal development e: Ingestion
Repr sess	oductive toxicity - As- ment	:	Clear evidence animal experime	of adverse effects on development, based on nts.
	T-single exposure classified based on avail	lahle	information	
	ponents:	labio		
		ucts	with naphthalen	e, sulfonated, sodium salts:
	essment	:	May cause resp	
N-Me	thyl-2-pyrrolidone:			
Asse	essment	:	May cause resp	ratory irritation.
Not c	T-repeated exposure classified based on avail	lable	information.	
	<u>ponents:</u>			
	opanol, reaction produessment	ucts :	-	e, sulfonated, sodium salts: ealth effects observed in animals at concentra-
ASSE	ssment	•	tions of 0.2 mg/l	
Repe	eated dose toxicity			
<u>Com</u>	<u>ponents:</u>			
Fose	tyl-aluminium:			
Spec NOA		:	Rat	
Appli	EL cation Route sure time	:	500 mg/kg Ingestion 13 Weeks	
Spec NOA		:	Rat 1,050 mg/kg	



according to the Hazardous Products Regulations

## Signature Xtra Stressgard

Application Route::Skin contactExposure time::28 Days <b>2-Propanol, reaction products with naphthalene, sulfonated, sodium salts:</b> Species::RatNOAEL::100 mg/kgLOAEL::300 mg/kgApplication Route::hgestionExposure time::36 - 52 DaysMethod::OECD Test Guideline 422Species::RatNOAEL::0.004 mg/lLOAEL::0.004 mg/lApplication Route::inhalation (dust/mist/fume)Exposure time::90 DaysMethod::OECD Test Guideline 413Formic acid:Species::RatNOAEL::Application Route::IngestionExposure time::Species::RatNOAEL::Species::Rat, maleNOAEL::Species::Rat, maleNOAEL::Species::Rat, maleNOAEL::Species::Rat, maleNOAEL::Species::Rat, maleNOAEL::Species::Rat, maleNOAEL::Species::Rat, maleNOAEL::Species::Rat, maleNOAEL	ersion Revision Date: 1 03/06/2024		SDS Number: 11310891-00002		Date of last issue: 12/14/2023 Date of first issue: 12/14/2023	
Exposure time       : 28 Days         2-Propanol, reaction products with naphthalene, sulfonated, sodium salts:         Species       : Rat         NOAEL       : 100 mg/kg         LOAEL       : 300 mg/kg         Application Route       : Ingestion         Exposure time       : 336 - 52 Days         Method       : OECD Test Guideline 422         Species       : Rat         NOAEL       : 0.004 mg/l         LOAEL       : 0.001 mg/l         Application Route       : inhalation (dust/mist/fume)         Exposure time       : 90 Days         Method       : OECD Test Guideline 413         Formic acid:       :         Species       : Rat         NOAEL       : 400 mg/kg         Application Route       : Ingestion         Exposure time       : 52 Weeks         Remarks       : Based on data from similar materials         NOAEL       : 169 mg/kg         LOAEL       : 433 mg/kg         Application Route       : Ingestion         Exposure time       : 90 Days         Method       : OECD Test Guideline 408         Species       : Rat         NOAEL       : 0.5 mg/l         LOAEL<	Applic	ation Route		Skin contact		
Species:RatNOAEL:100 mg/kgLOAEL:300 mg/kgApplication Route:IngestionExposure time:36 - 52 DaysMethod:OECD Test Guideline 422Species:RatNOAEL:0.004 mg/lLOAEL:0.001 mg/lLOAEL:0.001 mg/lLOAEL:0.001 mg/lLOAEL:0.001 mg/lLOAEL:0.001 mg/lLOAEL:0.001 mg/lLOAEL:0.001 mg/lSpecies:RatNOAEL:400 mg/kgApplication Route:IngestionExposure timeExposure time::52 WeeksRemarks:Based on data from similar materialsNMEthyl-2-pyrrolidone:Species:Species::Rat, maleNOAEL::169 mg/kgApplication Route::169 mg/kgApplication Route:::Species:::::::::::::::::::::::::::::::::<			:			
NOAEL: 100 mg/kgLOAEL: 300 mg/kgApplication Route: IngestionExposure time: 36 - 52 DaysMethod: OECD Test Guideline 422Species: RatNOAEL: 0.004 mg/lLOAEL: 0.01 mg/lLOAEL: 0.01 mg/lApplication Route: inhalation (dust/mist/fume)Exposure time: 90 DaysMethod: OECD Test Guideline 413Formic acid:SpeciesSpecies: RatNOAEL: 400 mg/kgApplication Route: IngestionExposure time: 52 WeeksRemarks: Based on data from similar materialsN-Methyl-2-pyrrolidone:Species: Rat, maleNOAEL: 169 mg/kgApplication Route: IngestionExposure time: 90 DaysMethod: OECD Test Guideline 408SpeciesRemarks: Based on data from similar materialsN-Methyl-2-pyrrolidone:Species: Rat, maleNOAEL: 169 mg/kgApplication Route: IngestionExposure time: 90 DaysMethod: OECD Test Guideline 408Species: RatNOAEL: 0.5 mg/lLOAEL: 1 mg/lApplication Route: inhalation (dust/mist/fume)Exposure time: 96 DaysMethod: OECD Test Guideline 413Species: RabbitNOAEL: 02CD Test Guidel	2-Pro	panol, reaction pro	ducts v	vith naphthalen	e, sulfonated, sodium salts:	
LOAEL: 300 mg/kgApplication Route: IngestionExposure time: 36 - 52 DaysMethod: OECD Test Guideline 422Species: RatNOAEL: 0.004 mg/lLOAEL: 0.01 mg/lApplication Route: inhalation (dust/mist/fume)Exposure time: 90 DaysMethod: OECD Test Guideline 413Formic acid:Species: RatNOAEL: 400 mg/kgApplication Route: IngestionExposure time: 52 WeeksRemarks: Based on data from similar materialsNMethyl-2-pyrrolidone:Species: Rat, maleNOAEL: 169 mg/kgLOAEL: 199 DaysMethod: OECD Test Guideline 408Species: Rat, maleNOAEL: 169 mg/kgLOAEL: 109 mg/kgLOAEL: 109 mg/kgLOAEL: 109 mg/kgLOAEL: 109 mg/kgLOAEL: 109 mg/kgLOAEL: 169 mg/kgLOAEL: 105 mg/lLOAEL: 105 mg/lLOAEL: 105 mg/lLOAEL: 105 mg/lLOAEL: 0.5 mg/lLOAEL: 105 mg/lLOAEL: 105 mg/lLOAEL: 105 mg/kgApplication Route: inhalation (dust/mist/fume)Exposure time: 96 DaysMethod: OECD Test Guideline 413Species: RabbitNOAEL: 826 mg/kgLOAEL: 1,653 mg/			:			
Application Route:IngestionExposure time:36 - 52 DaysMethod:OECD Test Guideline 422Species:RatNOAEL:0.004 mg/lLOAEL:0.01 mg/lApplication Route:inhalation (dust/mist/fume)Exposure time:90 DaysMethod:OECD Test Guideline 413Formic acid:Species:RatNOAEL:400 mg/kgApplication Route:IngestionExposure time:52 WeeksRemarks:Based on data from similar materialsN-Methyl-2-pyrrolidone:Species:Rat, maleNOAEL:169 mg/kgLOAEL:199 DaysMethod:OECD Test Guideline 408Species:RatNOAEL:0.5 mg/lLOAEL:1.0 smg/lApplication Route:inhalation (dust/mist/fume)Exposure time:90 DaysMethod:OECD Test Guideline 408Species:RatNOAEL:0.5 mg/lLOAEL:1.0 smg/lLOAEL:1.0 smg/lLOAEL:1.0 smg/lLOAEL:1.0 smg/lLOAEL::Method:OECD Test Guideline 413Species::Rat:NOAEL:			:			
Exposure time: 36 - 52 DaysMethod: OECD Test Guideline 422Species: RatNOAEL: 0.004 mg/lLOAEL: 0.004 mg/lLOAEL: inhalation (dust/mist/fume)Exposure time: 90 DaysMethod: OECD Test Guideline 413Formic acid:Species: RatNOAEL: 400 mg/kgApplication Route: IngestionExposure time: 52 WeeksRemarks: Based on data from similar materialsN-Methyl-2-pyrrolidone:Species: Rat, maleNOAEL: 169 mg/kgLOAEL: 190 baysMethod: OECD Test Guideline 408Species: Rat, maleNOAEL: 169 mg/kgLOAEL: 0.5 mg/lLOAEL: 0.5 mg/lLOAEL: 0.5 mg/lLOAEL: 1 mg/lApplication Route: inhalation (dust/mist/fume)Exposure time: 96 DaysMethod: OECD Test Guideline 413Species: RabbitNOAEL: 1 mg/lApplication Route: inhalation (dust/mist/fume)Exposure time: 96 DaysMethod: OECD Test Guideline 413Species: RabbitNOAEL: 286 mg/kgLOAEL: 1,653 mg/kgApplication Route: 1,653 mg/kgApplication Route: Skin contact			:			
Method       :       OECD Test Guideline 422         Species       :       Rat         NOAEL       :       0.004 mg/l         LOAEL       :       0.01 mg/l         Application Route       :       inhalation (dust/mist/fume)         Exposure time       :       90 Days         Method       :       OECD Test Guideline 413         Formic acid:         Species       :         Species       :       Rat         NOAEL       :       400 mg/kg         Application Route       :       Ingestion         Exposure time       :       52 Weeks         Remarks       :       Based on data from similar materials         NAEL       :       169 mg/kg         LOAEL       :       109 Days         Method       :       OECD Test Guideline 408         Species       :       Rat         NOAEL       :       0.5 mg/l         LOAEL       :       0.5 mg/l <td></td> <td></td> <td>:</td> <td></td> <td></td>			:			
Species:RatNOAEL:0.004 mg/lLOAEL:0.01 mg/lApplication Route:inhalation (dust/mist/fume)Exposure time:90 DaysMethod:OECD Test Guideline 413Formic acid:Species:RatNOAEL:400 mg/kgApplication Route:IngestionExposure time:52 WeeksRemarks:Based on data from similar materialsNMethyl-2-pyrrolidone::Species:Rat, maleNOAEL:169 mg/kgLOAEL:IngestionExposure time:90 DaysMethod:OECD Test Guideline 408Species:RatNOAEL:109 mg/kgLOAEL:105 mg/lLOAEL:0.5 mg/lLOAEL:0.5 mg/lLOAEL:1 mg/lApplication Route:::96 DaysMethod:OECD Test Guideline 413Species::Species:RabbitNOAEL:::::::::::::::::::::::::::::::::: <t< td=""><td>•</td><td></td><td>:</td><td>•</td><td>1.1. 100</td></t<>	•		:	•	1.1. 100	
NOAEL:0.004 mg/lLOAEL:0.01 mg/lApplication Route:inhalation (dust/mist/fume)Exposure time:90 DaysMethod:OECD Test Guideline 413Formic acid:Species:RatNOAEL:400 mg/kgApplication Route:IngestionExposure time:52 WeeksRemarks:Based on data from similar materialsN-Methyl-2-pyrrolidone::Species:Rat, maleNOAEL:169 mg/kgLOAEL:169 mg/kgLOAEL:1ngestionExposure time:90 DaysMethod:OECD Test Guideline 408Species:RatNOAEL:109 mg/kgLOAEL:109 mg/kgLOAEL:109 mg/kgLOAEL:109 mg/kgLOAEL:109 mg/kgLOAEL:109 mg/kgLOAEL:109 mg/kgMethod:OECD Test Guideline 408Species:RatNOAEL:0.5 mg/lLOAEL:105 mg/kgNOAEL:206 DaysMethod:OECD Test Guideline 413Species:RabbitNOAEL:326 mg/kgLOAEL:1,653 mg/kgNOAEL:526 mg/kgLOAEL:1,653 mg/kgApplicatio	Metho	od	:	OECD Test Gui	deline 422	
LOAEL:0.01 mg/lApplication Route:inhalation (dust/mist/fume)Exposure time:90 DaysMethod:OECD Test Guideline 413Formic acid:Species:RatNOAEL:400 mg/kgApplication Route:IngestionExposure time:52 WeeksRemarks:Based on data from similar materialsN-Methyl-2-pyrrolidone:Species:Rat, maleNOAEL:169 mg/kgLOAEL:119 mg/kgLOAEL:109 mg/kgLOAEL:109 mg/kgLOAEL:109 mg/kgLOAEL:109 mg/kgLOAEL:109 mg/kgLOAEL:109 mg/kgLOAEL:109 mg/kgLOAEL:109 mg/kgApplication Route:IngestionExposure time:90 DaysMethod:OECD Test Guideline 408Species:RatNOAEL:0.5 mg/lLOAEL:105 mg/lLOAEL:0 DecD Test Guideline 413Species::RabbitNOAEL:NOAEL:226 mg/kgLOAEL:1,653 mg/kgNOAEL:1,653 mg/kgNOAEL:Stin contact	•		:			
Application Route:inhalation (dust/mist/fume)Exposure time:90 DaysMethod:OECD Test Guideline 413Formic acid:Species:RatNOAEL:400 mg/kgApplication Route:IngestionExposure time:52 WeeksRemarks:Based on data from similar materialsN-Methyl-2-pyrrolidone:Species:Rat, maleNOAEL:169 mg/kgLOAEL:169 mg/kgLOAEL:19 mg/kgLOAEL:90 DaysMethod:OECD Test Guideline 408Species:RatNOAEL:0.5 mg/lLOAEL:1 mg/lApplication Route:inhalation (dust/mist/fume)Exposure time:90 DaysMethod:OECD Test Guideline 408Species:RatNOAEL:1 mg/lApplication Route::inhalation (dust/mist/fume)Exposure time:::::::::::::::::::::::::::::::::::::::	-		:			
Exposure time: 90 DaysMethod: OECD Test Guideline 413Formic acid:Species: RatNOAEL: 400 mg/kgApplication Route: IngestionExposure time: 52 WeeksRemarks: Based on data from similar materialsN-Methyl-2-pyrrolidone:Species: Rat, maleNOAEL: 169 mg/kgLOAEL: 169 mg/kgLOAEL: 169 mg/kgLOAEL: 90 DaysMethod: OECD Test Guideline 408Species: RatNOAEL: 0.5 mg/lLOAEL: 1 mg/lApplication Route: inhalation (dust/mist/fume)Exposure time: 96 DaysMethod: OECD Test Guideline 413Species: RatNOAEL: 1 mg/lApplication Route: inhalation (dust/mist/fume)Exposure time: 96 DaysMethod: OECD Test Guideline 413Species: RabbitNOAEL: 826 mg/kgLOAEL: 1,653 mg/kgApplication Route: Skin contact			:			
Method       : OECD Test Guideline 413         Formic acid:			:	•	mist/fume)	
Formic acid:         Species       :       Rat         NOAEL       :       400 mg/kg         Application Route       :       Ingestion         Exposure time       :       52 Weeks         Remarks       :       Based on data from similar materials         NMethyl-2-pyrrolidone:       .         Species       :       Rat, male         NOAEL       :       169 mg/kg         LOAEL       :       169 mg/kg         LOAEL       :       433 mg/kg         Application Route       :       Ingestion         Exposure time       :       90 Days         Method       :       OECD Test Guideline 408         Species       :       Rat         NOAEL       :       0.5 mg/l         LOAEL       :       1 mg/l         Application Route       :       inhalation (dust/mist/fume)         Exposure time       :       96 Days         Method       :       OECD Test Guideline 413         Species       :       Rabbit         NOAEL       :       02CD Test Guideline 413         Species       :       Rabbit         NOAEL       :					deline 112	
Species       : Rat         NOAEL       : 400 mg/kg         Application Route       : Ingestion         Exposure time       : 52 Weeks         Remarks       : Based on data from similar materials         N-Methyl-2-pyrrolidone:       .         Species       : Rat, male         NOAEL       : 169 mg/kg         LOAEL       : 433 mg/kg         Application Route       : Ingestion         Exposure time       : 90 Days         Method       : OECD Test Guideline 408         Species       : Rat         NOAEL       : 0.5 mg/l         LOAEL       : 1 mg/l         Application Route       : inhalation (dust/mist/fume)         Exposure time       : 96 Days         Method       : OECD Test Guideline 413         Species       : Rat         NOAEL       : 0.5 mg/l         LOAEL       : 1 mg/l         Application Route       : inhalation (dust/mist/fume)         Exposure time       : 96 Days         Method       : OECD Test Guideline 413         Species       : Rabbit         NOAEL       : 826 mg/kg         LOAEL       : 1,653 mg/kg         LOAEL       : 1,653 mg/	Metho		•	OECD lest Gui		
NOAEL: 400 mg/kgApplication Route: IngestionExposure time: 52 WeeksRemarks: Based on data from similar materialsN-Methyl-2-pyrrolidone:Species: Rat, maleNOAEL: 169 mg/kgLOAEL: 433 mg/kgApplication Route: IngestionExposure time: 90 DaysMethod: OECD Test Guideline 408Species: RatNOAEL: 0.5 mg/lLOAEL: 1 mg/lApplication Route: Indexton (dust/mist/fume)Exposure time: 96 DaysMethod: OECD Test Guideline 413Species: RatNOAEL: 0.5 mg/lLOAEL: 1 mg/lApplication Route: inhalation (dust/mist/fume)Exposure time: 96 DaysMethod: OECD Test Guideline 413Species: RabbitNOAEL: 826 mg/kgLOAEL: 1,653 mg/kgApplication Route: 1,653 mg/kgApplication Route: 5kin contact	Form	ic acid:				
Application Route:IngestionExposure time:52 WeeksRemarks:Based on data from similar materialsN-Methyl-2-pyrrolidone:Species:Rat, maleNOAEL:169 mg/kgLOAEL:169 mg/kgLOAEL:169 mg/kgLOAEL:90 DaysMethod:OECD Test Guideline 408Species:RatNOAEL:0.5 mg/lLOAEL:1 mg/lApplication Route:inhalation (dust/mist/fume)Exposure time:96 DaysMethod:OECD Test Guideline 413Species:RatNOAEL::LOAEL:1 mg/lApplication Route::Species:RabbitNOAEL::QECD Test Guideline 413:Species::RabbitNOAEL:NOAEL::Species:RabbitNOAEL:NOAEL::QECD Test Guideline 413Species:Rabbit:NOAEL::Species:Rabbit:NOAEL:Species:Rabbit:NOAEL:Species:Species:Species:Species:Species:	Speci	es	:	Rat		
Exposure time: 52 WeeksRemarks: Based on data from similar materialsN-Methyl-2-pyrrolidone:Species: Rat, maleNOAEL: 169 mg/kgLOAEL: 169 mg/kgLOAEL: 433 mg/kgApplication Route: IngestionExposure time: 90 DaysMethod: OECD Test Guideline 408Species: RatNOAEL: 0.5 mg/lLOAEL: 1 mg/lApplication Route: inhalation (dust/mist/fume)Exposure time: 96 DaysMethod: OECD Test Guideline 413Species: RabbitNOAEL: 0.5 mg/kgLOAEL: 1,653 mg/kgApplication Route: Skin contact	NOAE	EL	:	400 mg/kg		
Remarks:Based on data from similar materialsN-Methyl-2-pyrrolidone:Species:Rat, maleNOAEL:169 mg/kgLOAEL:433 mg/kgApplication Route:IngestionExposure time:90 DaysMethod:OECD Test Guideline 408Species:RatNOAEL:0.5 mg/lLOAEL:1 mg/lApplication Route:inhalation (dust/mist/fume)Exposure time:96 DaysMethod:OECD Test Guideline 413Species:RabbitNOAEL:826 mg/kgLOAEL:1,653 mg/kgApplication Route:1,653 mg/kgApplication Route::Species:RabbitNOAEL:826 mg/kgLOAEL:1,653 mg/kgApplication Route:Skin contact			:	Ingestion		
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NOAEL:826 mg/kgLOAEL:1,653 mg/kgApplication Route:Skin contact	wetho	Da	-	OECD Test Gui	deline 413	
LOAEL : 1,653 mg/kg Application Route : Skin contact			:			
Application Route : Skin contact			:			
			:			
Exposure time 20 Days			:			
	Expos		•	20 Days		

Not classified based on available information.

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ersion .1	Revision Date: 03/06/2024	-	OS Number: 310891-00002	Date of last issue: 12/14/2023 Date of first issue: 12/14/2023
Expe	erience with human exp	osi	ire	
<u>Com</u>	ponents:			
N-Me	ethyl-2-pyrrolidone:			
Skin	contact	:	Symptoms: Skin	irritation
ECTION	12. ECOLOGICAL INFO	ORN	IATION	
Ecot	oxicity			
<u>Prod</u>	luct:			
Toxic	city to fish	:	LC50 (Oncorhyn Exposure time:	chus mykiss (rainbow trout)): > 500 mg/l 96 h
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia Exposure time:	magna (Water flea)): > 1,000 mg/l 48 h
Toxic plant	sity to algae/aquatic s	:	ErC50 (Desmod Exposure time:	esmus subspicatus (green algae)): 43.50 mg/ 72 h
<u>Com</u>	ponents:			
Fose	tyl-aluminium:			
Toxic	city to fish	:	LC50 (Oncorhyn Exposure time:	chus mykiss (rainbow trout)): > 122 mg/l 96 h
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia Exposure time:	magna (Water flea)): 29.6 mg/l 48 h
Toxic plant	sity to algae/aquatic s	:	ErC50 (Selenas Exposure time:	trum capricornutum (green algae)): 2.715 mg/ 72 h
Toxic icity)	sity to fish (Chronic tox-	:	Exposure time:	nchus mykiss (rainbow trout)): >= 100 mg/l 28 d Test Guideline 215
aqua	tity to daphnia and other tic invertebrates (Chron- ticity)	:	NOEC (Daphnia Exposure time: :	magna (Water flea)): 17 mg/l 21 d
Ecot	oxicology Assessment			
Chro	nic aquatic toxicity	:	No toxicity at the	e limit of solubility.
2-Pro	opanol, reaction produc	ts v	with naphthalen	e, sulfonated, sodium salts:
	sity to fish	:	LC50 (Oncorhyn Exposure time:	chus mykiss (rainbow trout)): > 100 mg/l
	tity to daphnia and other tic invertebrates	:	EC50 (Daphnia Exposure time:	magna (Water flea)): > 100 mg/l 48 h

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Vers 1.1	sion	Revision Date: 03/06/2024		S Number: 310891-00002	Date of last issue: 12/14/2023 Date of first issue: 12/14/2023
				Method: OECD Te	est Guideline 202
	Toxicity plants	to algae/aquatic	:	ErC50 (Raphidoce 200 mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Raphidoce 12.5 mg/l Exposure time: 72 Method: OECD Te	
	Toxicity	to microorganisms	:	NOEC (activated = Exposure time: 3 Method: OECD Te	h
	Formic	acid:			
	Toxicity	to fish	:	Exposure time: 96 Method: OECD Te	
		to daphnia and other invertebrates	:	Exposure time: 48 Method: OECD Te	
	Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te	
				mg/l Exposure time: 72 Method: OECD Te	
		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
	Toxicity	to microorganisms	:	NOEC: 72 mg/l Exposure time: 13	d d
	N-Meth	yl-2-pyrrolidone:			
	Toxicity		:	LC50 (Oncorhyncl Exposure time: 96	nus mykiss (rainbow trout)): > 500 mg/l 5 h
	-	to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 24	agna (Water flea)): > 1,000 mg/l ⊧h

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ersion 1	Revision Date: 03/06/2024		0S Number: 310891-00002	Date of last issue: 12/14/2023 Date of first issue: 12/14/2023
			Method: DIN 3841	2
Toxici plants	ty to algae/aquatic	:	ErC50 (Desmodes Exposure time: 72	smus subspicatus (green algae)): 600.5 mg/l ? h
			EC10 (Desmodes) Exposure time: 72	mus subspicatus (green algae)): 92.6 mg/l ? h
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
Toxici	ty to microorganisms	:	EC50: > 600 mg/l Exposure time: 30 Method: ISO 8192	
Persis	stence and degradabil	ity		
<u>Comp</u>	oonents:			
2-Pro	panol, reaction produc	ts v	with naphthalene,	sulfonated, sodium salts:
Biode	gradability	:	Result: Not readily Biodegradation: 0 Exposure time: 29 Method: OECD Te	)%
Formi	ic acid:			
Biode	gradability	:	Biodegradation: 1 Exposure time: 28	100 %
N-Mot	thyl-2-pyrrolidone:			
	gradability	:	Result: Readily bid Biodegradation: 7 Exposure time: 28 Method: OECD Te	73 %
Bioac	cumulative potential			
<u>Comp</u>	oonents:			
Foset	yl-aluminium:			
	on coefficient: n- ol/water	:	log Pow: -2.11	
Partiti	<b>panol, reaction produc</b> on coefficient: n- ol/water		<b>vith naphthalene,</b> log Pow: -0.27	sulfonated, sodium salts:



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<b>hic acid:</b> tion coefficient: n- hol/water	: log Pow: -2.1	
ethyl-2-pyrrolidone: tion coefficient: n- nol/water	Ū	D Test Guideline 107
i <b>lity in soil</b> ata available		
<b>r adverse effects</b> ata available		
	03/06/2024 hic acid: tion coefficient: n- hol/water hol/water hol/water hol/water hity in soil ata available r adverse effects	03/06/2024 11310891-00002 nic acid: tion coefficient: n- tool/water hol/water tion coefficient: n- tion

Disposal methods		
Waste from residues	:	It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines. Do not dispose of waste into sewer.
Contaminated packaging	:	Follow advice on product label and/or leaflet. Empty containers retain residue and can be dangerous. Do not re-use empty containers.

#### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

**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.

**Domestic regulation** 

**TDG** Not regulated as a dangerous good

Special precautions for user

Not applicable

#### SECTION 15. REGULATORY INFORMATION

according to the Hazardous Products Regulations



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Active	substance	:	60 % Fosetyl-aluminium	

#### SECTION 16. OTHER INFORMATION

Full text of other abbreviations					
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)			
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)			
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)			
CA BC OEL	:	Canada. British Columbia OEL			
CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.			
CA QC OEL	:	Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants			
ACGIH / TWA	:	8-hour, time-weighted average			
ACGIH / STEL	:	Short-term exposure limit			
CA AB OEL / TWA	:	8-hour Occupational exposure limit			
CA AB OEL / STEL	:	15-minute occupational exposure limit			
CA BC OEL / TWA	:	8-hour time weighted average			
CA BC OEL / STEL	:	short-term exposure limit			
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)			
CA QC OEL / TWAEV	:	Time-weighted average exposure value			
CA QC OEL / STEV	:	Short-term exposure value			

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 Tempera-



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ture; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; 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

Sources of key data used to compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Revision Date Date format	:	03/06/2024 mm/dd/yyyy

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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