according to the OSHA Hazard Communication Standard



### BROADFORM

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SECTION 1. IDENTIFICATION						
F	Produc	t name	:	BROADFORM		
F	Product code		:	Article/SKU: 86762153 UVP: 84469882 Specification: 102000012886 EPA Registration No: 101563-158		
Manufacturer or supplier's			deta	ails		
(	Company name of supplier		:	Environmental Sc	cience U.S. LLC.	
ŀ	Address		:	5000 Centregreen Cary NC 27513	Way, Suite 400	
Ţ	Telepho	one	:	1-800-331-2867		
E	Emerge	ency telephone	:	+1 703-741-5970		
E	E-mail address		:	uscontact@envu.o	com	
Recommended use of the o		hen	nical and restrictio	ons on use		
F	Recom	mended use	:	Fungicide		
F	Restric	tions on use	:	See product label	for restrictions.	

#### SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)					
Acute toxicity (Oral)	:	Category 4			
Effects on or via lactation					
GHS label elements					
Hazard pictograms	:				
Signal Word	:	Warning			
Hazard Statements	:	H302 Harmful if swallowed. H362 May cause harm to breast-fed children.			
Precautionary Statements	:	<b>Prevention:</b> P201 Obtain special instructions before use. P263 Avoid contact during pregnancy and while nursing. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.			

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		Response:				
	P301 + P312 + P330 IF SWALLOWED: Call a doctor if you fe unwell. Rinse mouth.					
	P308 + P313 IF exposed or concerned: Get medical attention.					
	Disposal:					
		P501 Dispose of contents and container to an approved waste disposal plant.				
Othe	er hazards					
None	e known.					
SECTION	3. COMPOSITION/IN	FORMATION ON IN	IGREDIENTS			
Subs	tance / Mixture	: Mixture				
Chen	nical nature	: Suspension of	concentrate (=flowable concentrate)(SC)			
Com	ponents					

Chemical name	CAS-No.	Concentration (% w/w)
Trifloxystrobin	141517-21-7	>= 20 - < 30
Propylene glycol	57-55-6	>= 5 - < 10

Actual concentration is withheld as a trade secret

#### **SECTION 4. FIRST AID MEASURES**

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	Get medical attention.
In case of skin contact	:	Get medical attention.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	No symptoms known or expected. Harmful if swallowed. May cause harm to breast-fed children.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).

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Notes to physician		:	<ul> <li>There is no specific antidote available. Treat symptomatically. In case of ingestion gastric lavage should be considered cases of significant ingestions only within the first 2 hou However, the application of activated charcoal and sodi sulphate is always advisable. Appropriate supportive and symptomatic treatment as in ted by the patient's condition is recommended.</li> </ul>			
SECTION	5. FIRE-FIGHTING ME	ASU	IRES			
Suita	ble extinguishing media	:	Water spray Alcohol-resistan Carbon dioxide Dry chemical			
Unsu media	itable extinguishing a	:	High volume wa	ter jet		
Spec fightir	ific hazards during fire ng	:	Exposure to con	nbustion products may be a hazard to health.		
Haza ucts	rdous combustion prod-	:	Carbon oxides Nitrogen oxides Fluorine compou Chlorine compou	inds		
Spec ods	ific extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. aged containers from fire area if it is safe to do		
	Special protective equipment for fire-fighters			re, wear self-contained breathing apparatus. otective equipment.		

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. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for	:	Soak up with inert absorbent material.

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contai	nment and cleaning up	ment to keep ma pumped, store re Clean up remaini bent. Local or national sal of this materia ployed in the clea which regulations Sections 13 and	provide diking or other appropriate contain- terial from spreading. If diked material can be acovered material in appropriate container. Ing materials from spill with suitable absor- regulations may apply to releases and dispo- al, as well as those materials and items em- anup of releases. You will need to determine are applicable. 15 of this SDS provide information regarding ational requirements.

#### SECTION 7. HANDLING AND STORAGE

Technical measures		See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	<ul> <li>Avoid contact during pregnancy and while nursing.</li> <li>Avoid inhalation of vapor or mist.</li> <li>Do not swallow.</li> <li>Avoid contact with eyes.</li> <li>Avoid prolonged or repeated contact with skin.</li> <li>Wash skin thoroughly after handling.</li> <li>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment</li> <li>Do not eat, drink or smoke when using this product.</li> <li>Take care to prevent spills, waste and minimize release to the environment.</li> </ul>
Conditions for safe storage	:	Keep in properly labeled containers. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents Gases

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

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Propylene glycol	57-55-6	TWA	10 mg/m <sup>3</sup>	US WEEL

#### Engineering measures

: Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

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Pers	onal protective equi	pment		
Resp	iratory protection	:	maintain vapor concentrations a unknown, appro Follow OSHA re use NIOSH/MSH by air purifying n dous chemical i respirator if ther exposure levels	al exhaust ventilation is recommended to exposures below recommended limits. Where are above recommended limits or are priate respiratory protection should be worn. espirator regulations (29 CFR 1910.134) and HA approved respirators. Protection provided respirators against exposure to any hazar- s limited. Use a positive pressure air supplied e is any potential for uncontrolled release, are unknown, or any other circumstance ng respirators may not provide adequate
M B G	l protection laterial reak through time love thickness rotective index	: :	Nitrile rubber > 480 min > 0.4 mm Class 6	
R	emarks	:	on the concentra applications, we micals of the afe	to protect hands against chemicals depending ation specific to place of work. For special e recommend clarifying the resistance to che- prementioned protective gloves with the glove Vash hands before breaks and at the end of
Eyeı	protection	:	Wear the followi Safety glasses	ng personal protective equipment:
Skin	and body protection	:	Skin should be	washed after contact.
Hygie	ene measures	:	eye flushing sys king place. When using do	hemical is likely during typical use, provide stems and safety showers close to the wor- not eat, drink or smoke. ated clothing before re-use.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Color	:	white, beige
Odor	:	characteristic
Odor Threshold	:	No data available
рН	:	5 - 8 (73 °F / 23 °C)

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			Concentration: 10	00 %
Me	elting point/freezing point	:	No data available	
	tial boiling point and boiling	:	No data available	
Fla	ash point	:	> 212 °F / > 100	°C
Ev	aporation rate	:	No data available	
Fla	ammability (solid, gas)	:	Not applicable	
Fla	ammability (liquids)	:	Ignitable (see flas	sh point)
	per explosion limit / Upper mmability limit	:	No data available	
	wer explosion limit / Lower mmability limit	:	No data available	
Va	por pressure	:	No data available	
Re	lative vapor density	:	No data available	
Re	lative density	:	No data available	
De	nsity	:	ca. 1.17 g/cm³ (6	8 °F / 20 °C)
So	lubility(ies) Water solubility	:	dispersible	
	rtition coefficient: n- tanol/water	:	Not applicable	
Au	toignition temperature	:	716 °F / 380 °C Method: Regulation	on (EC) No. 440/2008, Annex, A.15
De	composition temperature	:	No data available	
Vis	scosity Viscosity, dynamic	:	240 - 350 mPa.s Shear rate of 20/s	· · · · · · · · · · · · · · · · · · ·
	Viscosity, kinematic	:	No data available	
Ex	plosive properties	:	Not explosive Method: OECD T	est Guideline 113
Ox	idizing properties	:	The substance or	mixture is not classified as oxidizing.

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Surfac	e tension	,	7 °F / 25 °C, OECD Test Guideline 115, Determi- ndiluted form.
Minimum ignition energy		: Not applicab	le
Particl	e size	: <= 2.5 µm	

#### 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	:	Oxidizing agents
Hazardous decomposition	:	No hazardous decomposition products are known.

#### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Inhalation Skin contact Ingestion Eye contact					
Acute toxicity Harmful if swallowed.					
Product:					
Acute oral toxicity	:	LD50 (Rat, female): 2,000 mg/kg			
Components:					
Trifloxystrobin:					
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg			
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg			
Propylene glycol:					
Acute oral toxicity	:	LD50 (Rat): 22,000 mg/kg			
Acute inhalation toxicity	:	LC50 (Rat): > 44.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist			

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Acute	dermal toxicity	: LD50 (Rabbit):	> 2,000 mg/kg
		Assessment: T toxicity	he substance or mixture has no acute derm
	corrosion/irritation assified based on ava	ilable information	
	oonents:		
	/lene glycol:		
Speci		: Rabbit	
Metho	od	: OECD Test Gu	
Result	t	: No skin irritatio	n
Serio	us eye damage/eye	irritation	
Not cl	assified based on ava	ilable information.	
<u>Comp</u>	oonents:		
Propy	/lene glycol:		
Speci		: Rabbit	
Result Metho		: No eye irritation : OECD Test Gu	
Skin s	ratory or skin sensit sensitization assified based on ava		
•	ratory sensitization assified based on ava	ilable information	
Produ			
Speci		: Mouse	
Metho	od	: Local lymph no	de assay (LLNA)
Result	t	: Does not cause	e skin sensitization.
<u>Comp</u>	oonents:		
Triflo	xystrobin:		
Asses Rema	ssment rks		vidence of skin sensitization in humans nal or regional regulation.
Prony	/lene glycol:		
Test 1	•••	: Maximization T	est
Route	s of exposure	: Skin contact	
Specie Result		: Guinea pig	
Resul	l	: negative	

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Germ	cell mutagenicity		
Not cl	assified based on av	ailable information.	
<u>Comp</u>	oonents:		
Triflo	xystrobin:		
	oxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES)
		Test Type: Chro Result: negative	omosome aberration test in vitro
			A damage and repair, unscheduled DNA s nalian cells (in vitro)
Propy	lene glycol:		
Genot	oxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES)
			omosome aberration test in vitro Test Guideline 473
Genot	oxicity in vivo	cytogenetic ass Species: Mouse	e ite: Intraperitoneal injection
Carol	nogenicity		
	assified based on av	ailable information.	
Comp	oonents:		
Triflo	xystrobin:		
Speci	•	: Rat	
•	ation Route	: Ingestion	
Expos	sure time	: 24 Months	
Resul	t	: negative	
Prop	lene glycol:		
Speci	•••	: Rat	
•	ation Route	: Ingestion	
Expos	sure time	: 2 Years	
Resul	t	: negative	
IARC			ent at levels greater than or equal to 0.1% confirmed human carcinogen by IARC.
OSHA	No compo	nent of this product pres	sent at levels greater than or equal to 0.1%

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NTP			ent at levels greater than or equal to 0.1% is d carcinogen by NTP.
-	oductive toxicity cause harm to breast-fe	d children.	
<u>Com</u>	<u>ponents:</u>		
Triflo	xystrobin:		
Effect	s on fertility	Species: Rat Application Rou	Test Guideline 416
Effect	s on fetal development	Species: Rabbin Application Rou	ite: Ingestion Test Guideline 414
Repro sessr	oductive toxicity - As- nent	: Studies indicati od	ng a hazard to babies during the lactation peri-
Prop	ylene glycol:		
Effect	s on fertility	: Test Type: Two Species: Mouse Application Rou Result: negative	ite: Ingestion
Effect	s on fetal development	: Test Type: Eml Species: Mouse Application Rou Result: negative	ite: Ingestion
	<b>F-single exposure</b> lassified based on avail	able information.	
	<b>F-repeated exposure</b> lassified based on avail	able information.	

# Components:

### Trifloxystrobin:

Assessment

: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

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Repe	ated dose toxicity			
<u>Com</u>	ponents:			
Triflo	xystrobin:			
		:	Rat 10 mg/kg Ingestion 2 y	
Prop	ylene glycol:			
		:	Rat, male >= 1,700 mg/kg Ingestion 2 y	
Aspir	ation toxicity			
Not c	lassified based on av	ailable	information.	

#### Ecotoxicity

Components:

Trifloxystrobin:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.015 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Mysidopsis bahia (opossum shrimp)): 0.00862 mg/l Exposure time: 96 h
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): 0.0174 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		EC10 (Desmodesmus subspicatus (green algae)): 0.0025 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic tox- icity)	:	EC10 (Oncorhynchus mykiss (rainbow trout)): 0.0075 mg/l Exposure time: 95 d
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	EC10 (Daphnia magna (Water flea)): 0.00328 mg/l Exposure time: 21 d
Propylene glycol:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l

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			Exposure time:	96 h
	ty to daphnia and other c invertebrates	:	EC50 (Ceriodap Exposure time:	hnia dubia (water flea)): 18,340 mg/l 48 h
Toxicit plants	ty to algae/aquatic	:	Exposure time:	nema costatum (marine diatom)): 19,300 mg/l 72 h Test Guideline 201
	ty to daphnia and other c invertebrates (Chron- city)	:	NOEC (Cerioda Exposure time:	phnia dubia (water flea)): 13,020 mg/l 7 d
Toxici	ty to microorganisms	:	NOEC (Pseudo Exposure time:	monas putida): > 20,000 mg/l 18 h
Persis	stence and degradabil	ity		
<u>Comp</u>	onents:			
Propy	lene glycol:			
Biode	gradability	:	Result: Readily Biodegradation: Exposure time: Method: OECD	98.3 %
Bioac	cumulative potential			
<u>Comp</u>	onents:			
Triflox	xystrobin:			
Bioaco	cumulation	:	Bioconcentratio	iis macrochirus (Bluegill sunfish) n factor (BCF): 431 Test Guideline 305
	on coefficient: n- bl/water	:	log Pow: 4.5 Method: OECD	Test Guideline 107
Propy	lene glycol:			
	on coefficient: n- bl/water	:	log Pow: -1.07 Method: Regula	tion (EC) No. 440/2008, Annex, A.8
Mobil	ity in soil			
No da	ta available			
Other	adverse effects ta available			

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#### SECTION 13. DISPOSAL CONSIDERATIONS

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 UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trifloxystrobin, Reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-
Class		isothiazol-3-one [EC no. 220-239-6] (3:1) 9
Packing group	÷	5 III
Labels	÷	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Trifloxystrobin, Reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Class	:	9
Packing group	:	
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(Trifloxystrobin, Reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F

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Marine	pollutant	:	yes	
-	oort in bulk according			OL 73/78 and the IBC Code
Domes	tic regulation			
Proper Class Packin Labels ERG C	NA number shipping name g group code pollutant		(Trifloxystrobin, F isothiazolin-3-one 9 III CLASS 9 171 yes(Trifloxystrobin isothiazolin-3-one Above applies onl ters. Shipment by group may be shipped p	azardous substance, liquid, n.o.s. Reaction mass of: 5-chloro-2-methyl-4- and 2-methyl-2H-isothiazol-3-one (3:1)) , Reaction mass of: 5-chloro-2-methyl-4- and 2-methyl-2H-isothiazol-3-one (3:1)) y to containers over 119 gallons or 450 li- nd under DOT is non-regulated; however it er the applicable hazard classification to dal transport involving ICAO (IATA) or IMO.

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### SECTION 15. REGULATORY INFORMATION

#### **CERCLA Reportable Quantity**

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

SARA 311/312 Hazards	:	Acute toxicity (any route of exposure) Reproductive toxicity
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.

#### **US State Regulations**

Pennsylvania Right To Know
Water
Trifloxystrobin

7732-18-5 141517-21-7

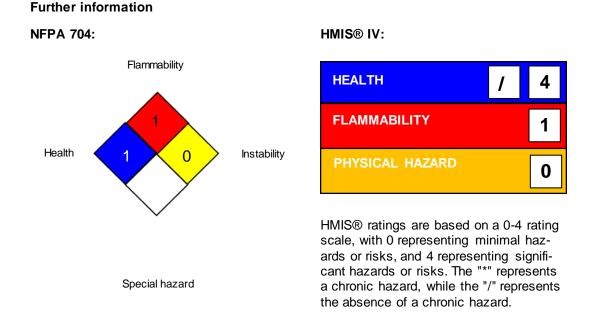
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Active	Fluopyram Propylene glycol substance	: 250 g/l Trifloxystrobin 250 g/l Fluopyram	658066-35-4 57-55-6

#### SECTION 16. OTHER INFORMATION



#### Full text of other abbreviations

US WEEL	:	USA. Workplace Environmental	Exposure Levels (WEEL)
US WEEL / TWA	:	8-hr TWA	

AlIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% response; EMS - Imergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% response; EMS - Imergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% response; 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 Chemi-

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cals 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity: SADT - Self-Accelerating Decomposition Temperature: SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

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

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