

ersion)	Revision Date: 06/07/2017		Date of last issue: - Date of first issue: 06/07/2017
CTION	1. IDENTIFICATION		
Prod	uct name	:	Rosin Core Solder, Sn60/Pb40, 14 g
Prod	uct code	:	987.062
	ufacturer or supplier's of pany name of supplier		
Addr	ess	:	345 Hanlon Creek Blvd GUELPH, ON N1C 0A1
Telep	phone	:	+1 (905) 564 6225
Telef	ax	:	+1 (905) 564 3671
Eme	rgency telephone	:	CANUTEC (24/7): +1 (613) 996-6666 or *666 (cellular)
E-ma	E-mail address		prodsafe@wurth.ca
	ommended use of the c ommended use	hen :	nical and restrictions on use Solder
Reco		:	Solder
Reco CTION	ommended use	: CA ⁻	Solder TION
Reco CTION GHS	ommended use	: CA ⁻	Solder
Reco CTION GHS Skin	ommended use	: CA ⁻ dan	Solder TION ce with the Hazardous Products Regulations
Reco CTION GHS Skin Carc	ommended use	CA ⁻ dan	Solder TION Ce with the Hazardous Products Regulations Category 1
Reco CTION GHS Skin Carc Repr	ommended use	CA ⁻ dan	Solder TION Ce with the Hazardous Products Regulations Category 1 Category 2
Reco ECTION GHS Skin Carc Repr Effec Spec	ommended use	CA ⁻ dan	Solder TION Ce with the Hazardous Products Regulations Category 1 Category 2
Reco CTION GHS Skin Carc Repr Effec Spec mic t sure	emmended use	CA ⁻ dan	Solder TION ce with the Hazardous Products Regulations Category 1 Category 2 Category 1A
Reco CTION GHS Skin Carc Repr Effec Spec mic t sure GHS	emmended use	CA ⁻ dan	Solder TION ce with the Hazardous Products Regulations Category 1 Category 2 Category 1A
Reco CTION GHS Skin Carc Repr Effec Spec mic t sure GHS Haza	and the second s	CA ⁻ dan	Solder TION ce with the Hazardous Products Regulations Category 1 Category 2 Category 1A



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		H360FD May damage fertility. May damage the unborn child. H362 May cause harm to breast-fed children. H372 Causes damage to organs (Central nervous system, Kid ney, Blood) through prolonged or repeated exposure.
Preca	utionary Statements	Prevention:
		 P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. 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. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection face protection.
		 Response: P302 + P352 IF ON SKIN: Wash with plenty of water. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P333 + P313 If skin irritation or rash occurs: Get medical advice attention. P362 + P364 Take off contaminated clothing and wash it before reuse.
		Storage: P405 Store locked up.
		Disposal: P501 Dispose of contents/ container to an approved waste dis posal plant.
Other	hazards	
Mav c	ause thermal burns.	

Substance / Mixture : Mixture

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
tin	7440-31-5	>= 50 - < 70
Lead	7439-92-1	>= 30 - < 50
Rosin	8050-09-7	>= 1 -< 5

SECTION 4. FIRST AID MEASURES

General advice

In the case of accident or if you feel unwell, seek medical advice immediately.

When symptoms persist or in all cases of doubt seek medical

:



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		advice.
lf inha	aled	: If inhaled, remove to fresh air. Get medical attention.
In cas	se of skin contact	 Cool melted product on skin with plenty of water. Do not remove solidified product. In case of contact, immediately flush skin with soap and plents of water. Remove contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In cas	se of eye contact	: In case of contact, immediately flush eye with plenty of water. Get medical attention if irritation develops and persists.
lf swa	allowed	 If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
	important symptoms affects, both acute and ed	 May cause an allergic skin reaction. Suspected of causing cancer. May damage fertility. May damage the unborn child. May cause harm to breast-fed children. Causes damage to organs through prolonged or repeated exposure. Contact with hot product will cause thermal burns.
Prote	ction 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.
Notes	s to physician	: Treat symptomatically and supportively.
SECTION	5. FIRE-FIGHTING MEA	ASURES
Suital	ble extinguishing media	: Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical

		Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Metal oxides Lead compounds Carbon oxides
Specific extinguishing meth-	:	Use extinguishing measures that are appropriate to local cir-



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ods			cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
	al protective equipment e-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
SECTION	6. ACCIDENTAL RELE	ASI	E MEASURES
tive e	nal precautions, protec- quipment and emer- v procedures	:	Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
Enviro	onmental precautions	:	Discharge into the environment must be avoided. 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.
	ods and materials for inment and cleaning up	:	Allow to solidify, use mechanical handling equipment. 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.
ECTION	7. HANDLING AND ST	OR/	AGE
Techr	nical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local	/Total ventilation	:	Use with local exhaust ventilation.
Advic	e on safe handling	:	Do not get on skin or clothing. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Keep container tightly closed. Take care to prevent spills, waste and minimize release to the environment.
Condi	itions for safe storage	:	Keep in properly labeled containers.

Conditions for safe storage	:	Keep in properly labeled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.
Motoriola to avaid		Do not store with the following product types:



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Strong oxidizing agents Organic peroxides Explosives Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

	kplace control paramet			
Ingredients	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
tin	7440-31-5	TWA	2 mg/m ³	CA AB OEL
		TWA	2 mg/m ³	CA ON OEL
		TWAEV	2 mg/m ³	CA QC OEL
		TWA	2 mg/m ³	CA BC OEL
		TWA	2 mg/m ³	ACGIH
Lead	7439-92-1	TWA	0.05 mg/m ³	CA AB OEL
		TWA	0.05 mg/m ³	CA BC OEL
		TWA	0.05 mg/m ³ (Lead)	CA ON OEL
		TWAEV	0.05 mg/m ³ (Lead)	CA QC OEL
		TWA	0.05 mg/m ³ (Lead)	ACGIH
Rosin	8050-09-7	TWAEV	0.1 mg/m ³ (Formaldehyde)	CA QC OEL

Ingredients with workplace control parameters

Occupational exposure limits of decomposition products

Ingredients	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Lead monoxide	1317-36-8	TWA	0.05 mg/m ³	CA AB OEL
			(Lead)	
		TWAEV	0.05 mg/m ³	CA QC OEL
			(Lead)	
		TWA	0.05 mg/m ³	CA BC OEL
			(Lead)	
		TWA	0.05 mg/m ³	CA ON OEL
			(Lead)	
		TWA	0.05 mg/m ³	ACGIH
			(Lead)	
Formaldehyde	50-00-0	(c)	1 ppm	CA AB OEL
			1.3 mg/m ³	
		TWA	0.75 ppm	CA AB OEL
			0.9 mg/m ³	
		TWA	0.3 ppm	CA BC OEL
		С	1 ppm	CA BC OEL
		STEL	1 ppm	CA ON OEL
		С	1.5 ppm	CA ON OEL
		С	2 ppm	CA QC OEL
			3 mg/m ³	



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				C		0.3 ppm		AC	GIH	
Acetaldehyde		75-0)7-0	(c)	25 ppm 45 mg/m ³	3	CA	AB O	
				С		25 ppm		CA	BC O	
				С		25 ppm 45 mg/m ³	3	CA	QC O	
				С		25 ppm		ACGIH		
Acrolein		107	-02-8	(c)	0.1 ppm 0.2 mg/m	3	CA	CA AB OE	
						0.1 ppm		CABC		
					VAEV	0.1 ppm 0.23 mg/m ³		CA	QC O	
					S		ΓEV	0.3 ppm 0.69 mg/m ³		CA
				С		0.1 ppm		ACGIH		
Butyraldehyde		123	123-72-8		NA	25 ppm		US	S WEEL	
Biological occupat	ional exp	osure li	imits							
Ingredients	CAS	S-No.	Control paramete	ers	Biological specimen	Sam- pling time	Permissi concentr tion		Basis	
_ead 7439-92-1		Lead (Lead)		In blood	Not criti- cal	30 µg/ 10 ml	00	ACGII BEI		

gineering measures	:	Processing may form hazardous compounds (see section 10). Minimize workplace exposure concentrations. Use with local exhaust ventilation.

Personal protective equipment

Respiratory protection	:	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
Filter type	:	Particulates type
Hand protection Material	:	Heat resistant gloves
Material	:	Nitrile rubber
Material	:	Natural Rubber
Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. For special applications, we recommend clarifying the resistance to che- micals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. Breakthrough time is not determined for the pro- duct. Change gloves often!
Eye protection	:	Wear the following personal protective equipment:

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		Safety glasses
Skin a	nd body protection	 Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
Hygiei	ne measures	 Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	solid
Color	:	silver, gray
Odor	:	odorless
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	> 100 °C
Initial boiling point and boiling range	:	1,740 °C
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Not classified as a flammability hazard
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	Not applicable
Relative vapor density	:	Not applicable
Relative density	:	No data available
Density	:	8.4 g/cm³ (20 °C)
Solubility(ies) Water solubility	:	insoluble
Partition coefficient: n-	:	Not applicable

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octanc	bl/water		
Autoig	nition temperature	:	No data available
Decon	nposition temperature	:	No data available
Viscos Vis	sity cosity, kinematic	:	Not applicable
Explos	sive properties	:	Not explosive
Oxidiz	ing properties	:	The substance or mixture is not classified as oxidizing.
Particl	e size	:	No data available

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. Hazardous decomposition products will be formed at elevated temperatures.
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition p Thermal decomposition		Lead monoxide Formaldehyde Acetaldehyde
		Acrolein Butyraldehyde

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Skin contact

Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity

: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method



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Ingre	dients:		
tin:			
Acute	e oral toxicity	:	LD50 (Rat): > 2,000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 4.75 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute	e dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity
Lead	:		
Acute	e oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 Remarks: Based on data from similar materials
Acute	e dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on data from similar materials
Rosii	n:		
Acute	e oral toxicity	:	LD50 (Rat): 2,800 mg/kg
Acute	e dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Not classified based on available information.

Ingredients:

tin:

Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation

Lead:

Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation Remarks: Based on data from similar materials

Rosin:

Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation



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Serious eye damage/eye irritation

Not classified based on available information.

Ingredients:

tin:

Species: Rabbit Result: No eye irritation Method: OECD Test Guideline 405

Lead:

Species: Rabbit Result: No eye irritation Method: OECD Test Guideline 405 Remarks: Based on data from similar materials

Rosin:

Species: Rabbit Result: No eye irritation Method: OECD Test Guideline 405

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Ingredients:

Lead:

Test Type: Maximization Test Routes of exposure: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: negative Remarks: Based on data from similar materials

Rosin:

Assessment: Probability or evidence of skin sensitization in humans Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Germ cell mutagenicity

Not classified based on available information.

:

Ingredients:

tin:

Genotoxicity in vitro

Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471



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			Result: negative
Lead:			
	xicity in vitro	:	Test Type: In vitro sister chromatid exchange assay in man malian cells Result: negative Remarks: Based on data from similar materials
Rosin:			
Genoto	xicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
	ogenicity ted of causing cancer.		
Ingredi	-		
tin:			
Exposu Result:	s: Rat tion Route: Ingestion re time: 115 weeks negative ks: Based on data from	sin	nilar materials
Lead:			
Result:	s: Rat tion Route: Ingestion positive ks: Based on data from	sin	nilar materials
	s: Rat tion Route: Ingestion negative		
Carcinc ment	genicity - Assess-	:	Limited evidence of carcinogenicity in animal studies
May da	luctive toxicity mage fertility. May dan use harm to breast-fed		
Ingredi			
Lead:			
Effects	on fertility	:	Species: Rat Application Route: Ingestion Result: positive Remarks: Based on data from similar materials
- #	on fetal development		Species: Rat



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		Result: positive Remarks: Based on data from similar materials
•	roductive toxicity - As- sment	: Studies indicating a hazard to babies during the lactation peri- od, Positive evidence of adverse effects on sexual function and fertility from human epidemiological studies., Positive evidence of adverse effects on development from human epi- demiological studies.
Ros	in:	
Effe	cts on fertility	 Test Type: Reproduction/Developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 421 Result: negative
Effe	cts on fetal development	 Test Type: Reproduction/Developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 421 Result: negative

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Causes damage to organs (Central nervous system, Kidney, Blood) through prolonged or repeated exposure.

Ingredients:

Lead:

Target Organs: Central nervous system, Kidney, Blood Assessment: Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less.

Target Organs: Central nervous system, Kidney, Blood Assessment: Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Ingredients:

tin:

Species: Rat NOAEL: > 1,000 mg/kg Application Route: Ingestion Exposure time: 28 Days Method: OECD Test Guideline 407



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Aspira	ation toxicity		
Not cla	assified based on availa	ble	information.
Exper	rience with human exp	osı	ire
Ingree	dients:		
Lead:			
Ingest	ion	:	Symptoms: Blood disorders, central nervous system effects Kidney disorders
CTION	12. ECOLOGICAL INFO	DRN	IATION
Ecoto	oxicity		
	dients:		
tin: Toxici	ty to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 12.4 µg/l Exposure time: 96 h Remarks: No toxicity at the limit of solubility. Based on data from similar materials
Toxici	ty to algae	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 19 μg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility. Based on data from similar materials
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Ceriodaphnia dubia (water flea)): 100 µg/l Exposure time: 7 d Remarks: No toxicity at the limit of solubility. Based on data from similar materials
Toxici	ty to microorganisms	:	EC50: > 511 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials
Lead:			
Toxici	ty to fish	:	LL50 (Oncorhynchus mykiss (rainbow trout)): > 10 - 100 mg Exposure time: 96 h Remarks: Based on data from similar materials
	ty to daphnia and other ic invertebrates	:	EL50 (Ceriodaphnia dubia (water flea)): > 1 - 10 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
Toxici	ty to algae	:	EL50 (Pseudokirchneriella subcapitata (green algae)): > 1 - mg/l Exposure time: 72 h Remarks: Based on data from similar materials

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Toxicit icity)	y to fish (Chronic tox-	:	NOELR (Pimephales promelas (fathead minnow)): > 1 mg/ Exposure time: 30 d Remarks: Based on data from similar materials
Rosin	:		
Toxicit	y to fish	:	LL50 (Danio rerio (zebra fish)): > 1 - < 10 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203
	y to daphnia and other c invertebrates	:	EL50 (Daphnia magna (Water flea)): 911 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202
Toxicit	y to algae	:	NOELR (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
Toxicit	y to microorganisms	:	EC50: > 10,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209
Persis	tence and degradabili	ity	
Ingred	lients:		
Rosin: Biodeg	: gradability	:	Result: Readily biodegradable. Biodegradation: 71 % Exposure time: 28 d Method: OECD Test Guideline 301D
Bioace	cumulative potential		
Ingred	lients:		
Rosin : Bioacc	cumulation	:	Species: Oncorhynchus mykiss (rainbow trout) Bioconcentration factor (BCF): < 100
	on coefficient: n- I/water	:	log Pow: 3 - 6.2
	ty in soil a available		



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SECTION	13. DISPOSAL CONS	SIDEF	RATIONS
Dispo	osal methods		
Waste	e from residues	:	Dispose of in accordance with local regulations.
Conta	minated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

International Regulations

UNRTDG UN number		UN 3077
Proper shipping name	÷	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
1 11 5		N.O.S.
Class		(Lead) 9
Packing group	:	9
Labels	÷	9
IATA-DGR		
UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (Lead)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passen- ger aircraft)	:	956
C ,		
IMDG-Code UN number		UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
r toper shipping hame	•	N.O.S.
Class		(Lead) 9
Packing group	:	
Labels	:	9
EmS Code	÷	F-A, S-F
Marine pollutant	:	yes
Transport in bulk according	to	Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as	sup	plied.
Domestic regulation		
TDG		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,



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Labels ERG (•		9 III 9 171 yes(Lead)		
SECTION 15. REGULATORY INFORMATION					
Volatile organic compounds (VOC) content					
. ,			VOC content: 0	%	
The in DSL	ngredients of this p	roduct :	•	ne following inventories: f this product are on the Canadian DSL	

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			
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)			
ACGIH / TWA		8-hour, time-weighted average			
ACGIH / C		Ceiling limit			
CA AB OEL / TWA	:	8-hour Occupational exposure limit			
CA AB OEL / (c)		ceiling occupational exposure limit			
CA BC OEL / TWA		8-hour time weighted average			
CA BC OEL / C	:	ceiling limit			
CA ON OEL / C	:	Ceiling Limit (C)			
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)			
CA ON OEL / STEL	:	Short-Term Exposure Limit (STEL)			
CA QC OEL / TWAEV	:	Time-weighted average exposure value			
CA QC OEL / STEV	:	Short-term exposure value			
CA QC OEL / C	:	Ceiling			
US WEEL / TWA	:	8-hr TWA			

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 - Internation-al 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;



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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

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/

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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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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