

Version 1.1	Revision Date: 02/13/2023	SDS Number: 50000375	Date of last issue: - Date of first issue: 10/31/2022				
SECTION	1. IDENTIFICATION						
Product identifier Product name		TALSTAR® P	TALSTAR® PL GRANULAR INSECTICIDE				
	Other means of identification Product code						
	<u>Recommended use of the chen</u> Recommended use		ctions on use as insecticide only.				
Restr	Restrictions on use		Use as recommended by the label.				
Detai	ils of the supplier of t	he safety data sheet					
	Manufacturer		FMC Corporation 2929 WALNUT ST PHILADELPHIA PA 19104 USA (215) 299-6000 SDS-Info@fmc.com				
<u>Emergency telephone</u>		1 800 / 424-93 1 703 / 741-59 1 703 / 527-38 Medical emer U.S.A. & Cana	For leak, fire, spill or accident emergencies, call: 1 800 / 424-9300 (CHEMTREC - U.S.A.) 1 703 / 741-5970 (CHEMTREC - International) 1 703 / 527-3887 (CHEMTREC - Alternate) Medical emergency: U.S.A. & Canada: +1 800 / 331-3148 All other countries: +1 651 / 632-6793 (Collect)				

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR				
1910.1200)				
Specific target organ toxicity : Category 1				

Specific target organ toxicity - single exposure	:	Category 1
Specific target organ toxicity - repeated exposure	:	Category 1
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger

SAFETY DATA SHEET



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Haza	rd Statements		lamage to organs. lamage to organs through prolonged or repeated				
Preca	autionary Statements	and understood P260 Do not bi P264 Wash ski P270 Do not ea P280 Wear pro	 Prevention: P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. 				
		Response: P307 + P311 II physician.	P307 + P311 IF exposed: Call a POISON CENTER or doctor/				
		Storage: P405 Store loc	Storage: P405 Store locked up.				
		Disposal: P501 Dispose posal plant.	of contents/ container to an approved waste dis-				
Othe	r hazards						
Very	toxic to aquatic life with	long lasting effects.					
SECTION	3. COMPOSITION/INF	ORMATION ON ING	REDIENTS				
Subs	tance / Mixture	: Mixture					
Com	ponents						

Chemical name	CAS-No.	Concentration (% w/w)
Quartz (SiO2)	14808-60-7	>= 90 - <= 100
Bifenthrin	82657-04-3	0.2

SECTION 4. FIRST AID MEASURES					
General advice :	Do not leave the victim unattended. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.				
If inhaled :	If symptoms persist, call a physician. If unconscious, place in recovery position and seek medical advice.				
In case of skin contact :	If on clothes, remove clothes. If on skin, rinse well with water. If skin irritation persists, call a physician.				
In case of eye contact :	If eye irritation persists, consult a specialist.				



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				Keep eye wide op Protect unharmed Remove contact l Flush eyes with w	leye.		
	If swallowed		:	Take victim immediately to hospital. If symptoms persist, call a physician. Never give anything by mouth to an unconscious person. Do not give milk or alcoholic beverages. Keep respiratory tract clear.			
	Most important symptoms and effects, both acute and delayed		:	Causes damage to organs through prolonged or repeated exposure. Causes damage to organs.			
	Notes to physician		:	It may be helpful to show this safety data sheet to physician. Treat symptomatically.			
SECTION 5. FIRE-FIGHTING MEASURES							
	Suitabl	e extinguishing media	:	Dry chemical Foam Carbon dioxide (C	:02)		
	Unsuita media	able extinguishing	:	High volume wate	r jet		
	Specific fighting	c hazards during fire	:	Do not allow run-o courses.	off from fire fighting to enter drains or water		
	Hazard ucts	lous combustion prod-	:	: Thermal decomposition can lead to release of toxic ar ing vapors.			
	Further	information	 Fire residues and contaminated fire extinguishing w be disposed of in accordance with local regulations Collect contaminated fire extinguishing water separ must not be discharged into drains. 		accordance with local regulations. ted fire extinguishing water separately. This		
		l protective equipment fighters	:	Wear self-contain essary.	ed breathing apparatus for firefighting if nec-		

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Avoid breathing dust. Avoid dust formation. Use personal protective equipment.
Environmental precautions	:	If the product contaminates rivers and lakes or drains inform respective authorities. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal.



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SECTI	SECTION 7. HANDLING AND STORAGE						
	Advice on protection against fire and explosion		Provide appropria is formed.	Provide appropriate exhaust ventilation at places where dust is formed.			
A	Advice on safe handling		Dispose of rinse water in accordance with local and nation regulations. Smoking, eating and drinking should be prohibited in the a plication area. For personal protection see section 8. Avoid contact with skin and eyes. Do not breathe vapors/dust. Avoid formation of respirable particles.				
С	Conditions for safe storage		the technological Containers which kept upright to pre	are opened must be carefully resealed and			
Further information on stor- age stability		:	No decomposition	n if stored and applied as directed.			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Quartz (SiO2)	14808-60-7	TWA (Res- pirable dust)	0.05 mg/m3	OSHA Z-1
		TWA (respir- able)	10 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respir- able)	250 mppcf / %SiO2+5	OSHA Z-3
		PEL (respir- able)	0.05 mg/m3	OSHA CARC
kaolin	1332-58-7		2 mg/m3	ACGIH
		TWA (Res- pirable)	5 mg/m3	NIOSH REL
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWÁ (respir- able fraction)	5 mg/m3	OSHA Z-1
		TWA (Total	10 mg/m3	OSHA P0



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		1		dust)		
				TWA (respir- able dust fraction)	5 mg/m3	OSHA P0
Pers	onal protective equip	ment				
Resp	piratory protection	:		t exposure wear I protective suit.	r suitable personal re	spiratory
	d protection laterial	:		al resistant glove r nitrile rubber.	es, such as barrier lar	ninate,
Rem	arks	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves.			scussed
Eye	protection	:	: Tightly fitting safety goggles Eye wash bottle with pure water			
Skin	and body protection	:	 Choose body protection according to the amount and con- centration of the dangerous substance at the work place. Dust impervious protective suit 			
Hygi	ene measures	:	: Wash hands before breaks and at the end of workday. When using do not smoke. When using do not eat or drink.			day.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	granules
Color	:	light tan
Odor	:	musty
Odor Threshold	:	No data available
рН	:	6.8 - 7.1
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	Not applicable
Flash point	:	No data available
Self-ignition	:	No data available
Upper explosion limit / Upper	:	No data available



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fla	ammal	oility limit			
		explosion limit / Lower pility limit	:	No data available)
V	′apor p	ressure	:	No data available)
R	elative	e vapor density	:	No data available	9
D	ensity		:	1.39 lb/scf	
В	ulk de	nsity	:	50 - 53 lb/scf	
S	olubilit Wate	y(ies) er solubility	:	No data available	9
	Solu	bility in other solvents	:	No data available)
	artitior ctanol/	n coefficient: n- /water	:	No data available	
A	utoign	ition temperature	:	No data available)
D	ecom	position temperature	:	No data available)
V	′iscosit Visc	y osity, dynamic	:	No data available	
	Visc	osity, kinematic	:	No data available	9
E	xplosiv	ve properties	:	Not explosive	
C)xidizir	g properties	:	Non-oxidizing	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reac- tions	:	No decomposition if stored and applied as directed. Dust may form explosive mixture in air.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Strong oxidizing agents Strong acids and strong bases
Hazardous decomposition products	:	Carbon oxides



ersion .1	Revision Date: 02/13/2023	SDS Number: 50000375	Date of last issue: - Date of first issue: 10/31/2022
ECTION	11. TOXICOLOGICA	L INFORMATION	
	e toxicity lassified based on av	ailable information.	
<u>Prod</u>	uct:		
Acute	e oral toxicity	: LD50 (Rat):	> 5,000 mg/kg
Acute	inhalation toxicity	Exposure ti Test atmos	ty estimate: > 200 mg/l me: 4 h ohere: dust/mist lculation method
Acute	e dermal toxicity	: LD50 (Rabb	bit): > 2,000 mg/kg
-	corrosion/irritation lassified based on av	ailable information.	
Prod	<u>uct:</u>		
Resu	lt	: No skin irrita	ation
<u>Prod</u> Resu		: No eye irrita	ation
Rosn	iratory or skin sens	itization	
-	sensitization		
-	lassified based on av	ailable information.	
Resp	iratory sensitization		
-	lassified based on av		
Prod	<u>uct:</u>		
Resu	lt	: Not a skin s	ensitizer.
Germ	n cell mutagenicity		
	lassified based on av	ailable information.	
Com	ponents:		
Quar	tz (SiO2):		
Geno	toxicity in vitro	Result: neg	reverse mutation assay ative ased on data from similar materials
Geno	otoxicity in vivo	: Test Type:	Micronucleus test
	, -		



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		Result: nega	CD Test Guideline 474		
Bifen	thrin:				
Geno	toxicity in vitro	Test system:	ene mutation test Chinese hamster ovary cells tivation: with and without metabolic activation tive		
			everse mutation assay tivation: with and without metabolic activation tive		
			louse lymphoma assay tivation: with and without metabolic activation tive		
Geno	Genotoxicity in vivo :		Test Type: Sex-linked Recessive Lethal Test Species: Drosophila melanogaster (vinegar fly) Result: negative		
		Species: Rat	CD Test Guideline 486		
	i nogenicity lassified based on ava	ilable information.			
Prod Carci ment	nogenicity - Assess-	: Positive evid	ence from human epidemiological studies		
		cinogen, This non-respirab	idence does not support classification as a car- s product contains crystalline silica (quartz) in a le form. Inhalation of crystalline silica is unlikely to xposure to this product.		
IARC	kaolin	arcinogenic to huma , crystalline)	ns 1332-58-7		
OSH	A OSHA spec Quartz (SiC (crystalline		rcinogen 14808-60-7		
NTP	kaolin	e human carcinoger stalline (Respirable :	1332-58-7		



rsion	Revision Date: 02/13/2023		DS Number: 0000375	Date of last issue: - Date of first issue: 10/31/2022				
Repro	oductive toxicity							
Not cl	assified based on availa	able	information.					
<u>Com</u>	Components:							
Bifen	thrin:							
Effect	s on fertility	:						
Effect	s on fetal development	:	Species: Rabbit Application Route General Toxicity Teratogenicity: N Symptoms: Mate Result: No terato Test Type: Embry Species: Rat Application Route General Toxicity	Maternal: NOAEL: 2.7 mg/kg bw/day OAEL: 2.7 mg/kg bw/day rnal effects. genic effects. /o-fetal development e: Oral Maternal: NOAEL: 1 mg/kg bw/day OAEL: 2 mg/kg bw/day				
стот	-single exposure							
	es damage to organs.							
<u>Produ</u> Asses	<u>uct:</u> ssment	:		mixture is classified as specific target orgar kposure, category 1.				
стот	-repeated exposure							
	es damage to organs thr	oug	h prolonged or rep	eated exposure.				
<u>Produ</u>	uct:							
Asses	ssment	:		mixture is classified as specific target organ d exposure, category 1.				
Repe	ated dose toxicity							
Comp	oonents:							
Quart	tz (SiO2):							
Speci LOAE Applic	es	:	Rat 0.0025 mg/l Inhalation 90 day					



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Meth Targe Rema	et Organs	:	OECD Test Guide Lungs Based on data fro	eline 413 om similar materials
-	hthrin:			
Spec NOEI		:	Rat, male and fer 100 ppm	nale
	cation Route	:	Oral - feed	
	sure time	:	90 d	
Rema	arks	:	No toxicologically	significant effects were found.
Spec		:	Dog, male and fe	
NOEI	L cation Route	:	2.5 mg/kg bw/day Oral - feed	/
	sure time	:	13 w	
	otoms	:	Tremors	
Aspii	ration toxicity			
Not c	lassified based on availa	ble	information.	
Com	ponents:			
Bifen	hthrin:			
<u>Prod</u> Rema		:	No data available	
CTION	12. ECOLOGICAL INFO	ORI	MATION	
Ecote	oxicity			
Com	ponents:			
Quar	tz (SiO2):			
	to fish	:	LC50 (Cyprinus c Exposure time: 72	arpio (Carp)): > 10,000 mg/l 2 h
Bifen	hthrin:			
Toxic	ity to fish	:	LC50 (Salmo gair Exposure time: 96	
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 0.11 µg/l 8 h
Toxic	ity to algae/aquatic	:	EC50 (algae): 0.8	322 mg/l



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plants			Exposure time: 72	h
Toxicity to fish (Chronic tox- icity)		:	NOEC (Oncorhyne Exposure time: 21	chus mykiss (rainbow trout)): 0.00012 mg/l d
	invertebrates (Chron-	:	NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 0.0013 μg/l d
			NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 0.00095 µg/l d
Toxicity ganism	r to soil dwelling or- s	:	LD50 (Eisenia feti Exposure time: 14	da (earthworms)): > 16 mg/kg ∘ d
Toxicity isms	v to terrestrial organ-	:	LD50 (Colinus virg	ginianus (Bobwhite quail)): 1,800 mg/kg
			LD50 (Apis mellife End point: Acute o	era (bees)): 0.044 - 0.11 μg/bee contact toxicity
			LD50 (Apis mellife End point: Acute o	era (bees)): 0.1 μg/bee oral toxicity
			LD50 (Anas platyr	hynchos (Mallard duck)): > 2,150 mg/kg
Persist	ence and degradabili	ity		
<u>Compo</u>	onents:			
	(SiO2): radability	:	Result: Not biodeo	gradable
Bifenth Biodegr	nrin: radability	:	Result: Not readily	<i>v</i> biodegradable.
Bioacc	umulative potential			
<u>Compo</u>	onents:			
	(SiO2):		Demerike: Dees a	
Bioaccu	umulation	:	Remarks: Does no	ot bloaccumulate.
Bifenth	nrin:			
Bioaccu	umulation	:	Bioconcentration f Remarks: Due to t accumulation in or	macrochirus (Bluegill sunfish) factor (BCF): 1,709 the distribution coefficient n-octanol/water, rganisms is possible. potanol-water partition coefficient.
	n coefficient: n-		log Pow: 6	



SOLID,

TALSTAR® PL GRANULAR INSECTICIDE

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Mob	ility in soil				
Com	ponents:				
Distr	nthrin: ibution among environ- tal compartments	:	Koc: 236610 ml/g Remarks: immobi		
Stab	ility in soil	:			
Othe	er adverse effects				
Proc	luct:				
Ozor	ne-Depletion Potential	:	tection of Stratos Substances Remarks: This protured with a Class	FR Protection of Environment; Part 82 Pro- oheric Ozone - CAA Section 602 Class I oduct neither contains, nor was manufac- s I or Class II ODS as defined by the U.S. tion 602 (40 CFR 82, Subpt. A, App.A + B).	
Addi matio	tional ecological infor- on	:	An environmental	atic life with long lasting effects. hazard cannot be excluded in the event of andling or disposal.	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 Send to a licensed waste management company. Do not contaminate ponds, waterways or ditches with chemi- cal or used container. The product should not be allowed to enter drains, water courses or the soil.
Contaminated packaging	: Do not re-use empty containers. Dispose of as unused product. Empty remaining contents.

SECTION 14. TRANSPORT INFORMATION

International Regulations	
UNRTDG	
UN number	: UN 3077
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, N.O.S. (Bifenthrin)
Class	: 9
Subsidiary risk	: ENVIRONM.
Packing group	: 111
Labels	: 9 (ENVIRONM.)
IATA-DGR	



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	UN/ID I	No		UN 3077	
Proper shipping name		:		nazardous substance, solid, n.o.s.	
(Class		:	9	
I	Packing	g group	:	III	
I	Labels		:	Miscellaneous	
	Packing instruction (cargo aircraft)		:	956	
	Packino ger airc	g instruction (passen- traft)	:	956	
ĺ	Enviror	mentally hazardous	:	yes	
	IMDG-0	Code			
	UN nur		:	UN 3077	
I	Proper	shipping name	:	ENVIRONMENTA N.O.S. (Bifenthrin)	ALLY HAZARDOUS SUBSTANCE, SOLID,
(Class		:	9	
I	Packing	g group	:	111	
I	Labels		:	9	
I	EmS C	ode	:	F-A, S-F	
I	Marine	pollutant	:	yes	

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR	
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UN/ID/NA number	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (Bifenthrin)
Class	:	9
Packing group	:	III
Labels	:	CLASS 9
ERG Code	:	171
Marine pollutant	:	yes (Bifenthrin)
Remarks	:	Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

Special precautions for user

Remarks	:	Shipment by ground under DOT is non-regulated; however it
		may be shipped per the applicable hazard classification to
		facilitate multi-modal transport involving ICAO (IATA) or IMO.
		49CFR: no dangerous good in non-bulk packaging

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.



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SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

SARA 311/312 Hazards	:	Specific target organ toxicity (single or repeated exposure) Carcinogenicity
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Pe

Massachusetts Right To Know

Quartz (SiO2) Distillates (petroleum), solvent-dewaxed light paraffinic	14808-60-7 64742-56-9
ennsylvania Right To Know	
Quartz (SiO2)	14808-60-7
aine Chamiagle of Llink Concern	

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals



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W is	California Prop. 65 WARNING: This product can expose you to chemicals including kaolin, titanium dioxide, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.						
С	alifornia Permissible Expo Quartz (SiO2)	sur	e Limits for Chem	ical Contaminants	14808-60-7		
С	alifornia Regulated Carcin kaolin	oge	ens		1332-58-7		
T	he ingredients of this prod	luct	are reported in th	e following invento	ries:		
T	CSI	:	On the inventory,	or in compliance with	the inventory		
T	SCA	:	Product contains	substance(s) not liste	ed on TSCA inventory.		
A	IIC	:	Not in compliance	with the inventory			
D	SL	:	This product conta on the Canadian I		nponents that are not		
E	NCS	:	Not in compliance	with the inventory			
IS	SHL	:	Not in compliance	with the inventory			
K	ECI	:	Not in compliance	with the inventory			
Р	ICCS	:	Not in compliance	with the inventory			
IE	ECSC	:	Not in compliance	with the inventory			
N	ZloC	:	Not in compliance	with the inventory			
T	ECI	:	Not in compliance	with the inventory			

TSCA list

No substances are subject to a Significant New Use Rule.

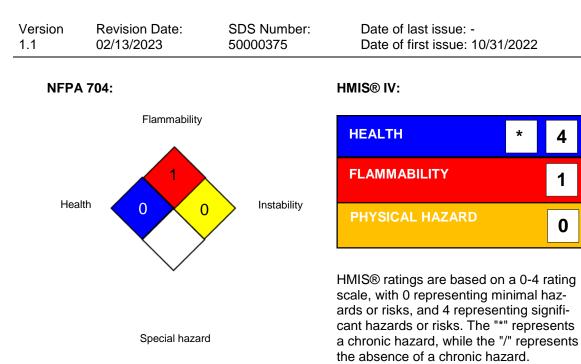
No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information







0 No health threat, **1** Slightly Hazardous, **2** Hazardous, **3** Extreme danger, **4** Deadly

Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)		
NIOSH REL	: USA. NIOSH Recommended Exposure Limits		
OSHA CARC	: OSHA Specifically Regulated Chemicals/Carcinoge	ens	
OSHA P0	: USA. Table Z-1-A Limits for Air Contaminants (198 values)	9 vacated	
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Tabl its for Air Contaminants	e Z-1 Lim-	
OSHA Z-3	: USA. Occupational Exposure Limits (OSHA) - Tabl eral Dusts	e Z-3 Min-	
ACGIH / TWA	: 8-hour, time-weighted average		
NIOSH REL / TWA	: Time-weighted average concentration for up to a 1 workday during a 40-hour workweek	J-hour	
OSHA CARC / PEL	: Permissible exposure limit (PEL)		
OSHA P0 / TWA	: 8-hour time weighted average		
OSHA Z-1 / TWA	: 8-hour time weighted average		
OSHA Z-3 / TWA	: 8-hour time weighted average		

AIIC - 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% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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 -



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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; 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

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End of Material Safety Data Sheet