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# SAFETY DATA SHEET

#### 2NBA-LT. FLINT/357

Section 1. Identification		
GHS product identifier	:	2NBA-LT. FLINT/357
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification	:	CC10110880
Product type	:	solid
	ance	or mixture and uses advised against
Product use	:	Industrial applications. Plastics.
Supplier's details		POLYONE CORPORATION
Supplier's details	•	33587 Walker Road, Avon Lake, OH 44012
		55587 Walkel Road, Avoil Lake, OH 44012
		1 (440) 930-1000 or 1 (866) POLYONE
<b>Emergency telephone number</b> (with hours of operation)	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

## Section 2. Hazards identification

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status	:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	:	Not classified.
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#### GHS label elements



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Signal word Hazard statements	:	No signal word. No known significant effects or critical hazards.
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Precautionary statements		
General	:	Not applicable.
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	None known.
Hazards not otherwise classified	:	None known.

### Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	CC10110880

CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	10 - 30	13463-67-7
Decanedioic acid, bis(2,2,6,6-tetramethyl-4-piperidinyl) ester	5 - 10	52829-07-9
Decanediole acid, 015(2,2,0,0 terrainenty) + pipertainy) ester	5 10	52027 07 7
Phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylpropyl)-	1 - 5	25973-55-1
Carbon black	0.1 - 1	1333-86-4
	0.1 - 1	1555-80-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.



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### Section 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact Inhalation	:	No known significant effects or critical hazards. Exposure to decomposition products may cause a health hazard.
Skin contact Ingestion	:	Serious effects may be delayed following exposure. No known significant effects or critical hazards. No known significant effects or critical hazards.
Over-exposure signs/symptoms		
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Indication of immediate medical a	<u>ttentio</u>	n and special treatment needed, if necessary
Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.
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Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

### **Section 5. Fire-fighting measures**

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#### **Extinguishing media**

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or $\rm CO_2$ . None known.
Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
Special protective actions for fire- fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).



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#### Methods and materials for containment and cleaning up

Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

#### Precautions for safe handling

Protective measures Advice on general occupational hygiene	:	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	1	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits	
Titanium dioxide	OSHA PEL 1989 (1989-03-01)	
	PEL: Permissible Exposure Level 10 mg/m3 Form: Total dust	
	OSHA PEL (1993-06-30)	
	PEL: Permissible Exposure Level 15 mg/m3 Form: Total dust	
	ACGIH TLV (1996-05-18)	
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	TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 10 mg/m3
Carbon black	OSHA PEL 1989 (1989-03-01)PEL: Permissible Exposure Level 3.5 mg/m3OSHA PEL (1993-06-30)PEL: Permissible Exposure Level 3.5 mg/m3NIOSH REL (1994-06-01)Time Weighted Average (TWA) 3.5 mg/m3Time Weighted Average (TWA)ACGIH TLV (2010-12-06)TLV-TWA: Threshold Limit Value - Time weighted average PEL:Permissible Exposure Level 3 mg/m3Form: Inhalable fraction
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures	
Hygiene measures Eye/face protection	<ul> <li>Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.</li> <li>Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.</li> </ul>
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be

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	approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measures
	should be selected based on the task being performed and the risks
	involved and should be approved by a specialist before handling this
	product.
<b>Respiratory protection</b>	Use a properly fitted, particulate filter respirator complying with an

**tory protection :** Use a property fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

#### **Appearance**

Physical state	:	solid [Pellets.]
Color	:	GREY
Odor	:	Faint odor.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not available.
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	Lower: Not available.
(flammable) limits		Upper: Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	insoluble in water.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available.
-		Kinematic: Not available.

## Section 10. Stability and reactivity



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Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Keep away from strong acids. Oxidizer.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result		Species	Dose	Exposure
Titanium dioxide					
	LC50 Inhala	tion	Rat - Male	6.82 Mg/l	4 h
	LD50 Derma	al	Rabbit	> 5,000 mg/kg	-
Decanedioic acid, bis(2,2,6,6-t	etramethyl-4-p	iperic	linyl) ester		
	LC50 Inhala	tion	Rat	1 mg/l	4 h
Phenol, 2-(2H-benzotriazol-2-	yl)-4,6-bis(1,1-	dime	thylpropyl)-		
Carbon black			• • • •		
	LD50 Oral		Rat	15,400 mg/kg	-
Conclusion/Summary	: I	Mixtu	re.Not fully tested.		
Conclusion/Summary					
Skin			re.Not fully tested.		
Eyes			re.Not fully tested.		
Respiratory	: 1	Mixtu	re.Not fully tested.		
<b>Sensitization</b>					
Conclusion/Summary Skin	: 1	Mixtu	re.Not fully tested.		
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Respiratory	:	Mixture.Not fully tested.			
Mutagenicity					
Conclusion/Summary	:	Mixture.Not	fully tested.		
<b>Carcinogenicity</b>					
Conclusion/Summary <u>Classification</u>	:	Mixture.Not	fully tested.		
Product/ingredient	OSHA	IARC	NTP		
name					
Titanium dioxide		2B			
Carbon black		2B			
<u>Reproductive toxicity</u> Conclusion/Summary	:	Mixture.Not	fully tested.		
<b>Teratogenicity</b>					
Conclusion/Summary	:	Mixture.Not	fully tested.		
Specific target organ toxicity Not available.	/ (single expo	<u>sure)</u>			
Specific target organ toxicity	(repeated ex	<u>kposure)</u>			
Product/ingredient name	Category		Route of exposure	Target organs	
Phenol, 2-(2H-benzotriazol-	Category 2		OralOral	kidneys	

Product/ingredient name	Category	Route of exposure	Target organs
Phenol, 2-(2H-benzotriazol-	Category 2	OralOral	kidneys
2-yl)-4,6-bis(1,1-			liver
dimethylpropyl)-			

#### Aspiration hazard

Not available.

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact Inhalation	:	No known significant effects or critical hazards. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact Ingestion	:	No known significant effects or critical hazards. No known significant effects or critical hazards.
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#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Inhalation : Skin contact : Ingestion :		No specific data. No specific data. No specific data. No specific data.
Delayed and immediate effects and also	o cł	pronic effects from short and long term exposure
Short term exposure		
Potential immediate effects Potential delayed effects		Not available. Not available.
Long term exposure		
Potential immediate effects Potential delayed effects		Not available. Not available.
Potential chronic health effects		
Conclusion/Summary :		Mixture.Not fully tested.
General Carcinogenicity Mutagenicity Teratogenicity Developmental effects Fertility effects		No known significant effects or critical hazards. No known significant effects or critical hazards.

#### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	5	Exposure
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Titanium dioxide			
	Acute LC50 > 1,000,000 µg/l Marine water	Fish - Mummichog	96 h
	Acute LC50 > 1,000 mg/l Fresh water	Fish - Fathead minnow	96 h
	Acute LC50 13 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute EC50 19.3 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute EC50 27.8 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute EC50 35.306 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
Carbon black			
	Acute EC50 37.563 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute LC50 61.547 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
2NBA-LT. FLINT/357			
Remarks - Acute - Aquatic invertebrates.:	Chemicals are not readily available a	as they are bound within the	e polymer matrix.
Conclusion/Summary	: Chemicals are not readil polymer matrix.	ly available as they are bou	nd within the
Persistence and degradability	<u>v</u>		
Conclusion/Summary	: Chemicals are not readil polymer matrix.	ly available as they are bou	nd within the
Conclusion/Summary	: Chemicals are not readil polymer matrix.	ly available as they are bou	nd within the

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential	
Titanium dioxide		352.00	low	
Decanedioic acid,	0.35	-	low	
bis(2,2,6,6-tetramethyl-4-				
piperidinyl) ester				

#### **Mobility in soil**

Soil/water partition coefficient	:	Not available.
(KOC)		
Other adverse effects	:	No known significant effects or critical hazards.

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### Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

#### Section 14. Transport information

U.S. DOT Classification	:	Not regulated for transportation.
ICAO/IATA	:	Not classified as dangerous good under transport regulations.
IMO/IMDG (maritime)	:	Not classified as dangerous good under transport regulations.

#### Section 15. Regulatory information

U.S. Federal regulations	:	United States - TSCA 12(b) - Chemical export notification: None
		of the components are listed.
		United States - TSCA 4(a) - Final Test Rules: Not listed
		United States - TSCA 4(a) - ITC Priority list: Not listed
		United States - TSCA 4(a) - Proposed test rules: Not listed
		United States - TSCA 4(f) - Priority risk review: Not listed
		United States - TSCA 5(a)2 - Final significant new use rules: Not
		listed
		United States - TSCA 5(a)2 - Proposed significant new use rules:
		Not listed
		United States - TSCA 5(e) - Substances consent order: Not listed
		United States - TSCA 6 - Final risk management: Not listed



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		United States - TSCA 6 - Proposed risk management: Not listed
		United States - TSCA 8(a) - Chemical risk rules: Not listed
		United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed
		United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not
		determined
		United States - TSCA 8(a) - Preliminary assessment report
		(PAIR): Not listed
		United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed
		United States - TSCA 8(d) - Health and safety studies: Not listed
		United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Not listed
		United States - EPA Clean water act (CWA) section 311 -
		Hazardous substances: Not listed
		United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed
		United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Not listed
		United States - Department of commerce - Precursor chemical:
		Not listed
t Section 112(b) r Pollutants (HAPs)	:	Not listed

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	:	Not listed
Clean Air Act Section 602 Class I	:	Not listed
Substances Clean Air Act Section 602 Class II	:	Not listed
Substances DEA List I Chemicals (Precursor	:	Not listed
Chemicals) DEA List II Chemicals (Essential		Not listed
Chemicals)	Ĩ	

#### US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

#### SARA 311/312

Classification

Not applicable.

:

#### **Composition/information on ingredients**

Name	%	Classification
Titanium dioxide	10 - 30	СН
Decanedioic acid, bis(2,2,6,6-	5 - 10	AH



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tetramethyl-4-piperidinyl) ester		
Phenol, 2-(2H-benzotriazol-2-yl)- 4,6-bis(1,1-dimethylpropyl)-	1 - 5	СН
Carbon black	0.1 - 1	СН

#### SARA 313

	Product name	CAS number	%
Form R - Reporting	Rutile, antimony chromium	68186-90-3	1 - 5
requirements	buff		
Supplier notification	Rutile, antimony chromium	68186-90-3	1 - 5
	buff		

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations		
Massachusetts	:	The following components are listed: Titanium dioxide Silica, amorphous Iron oxide Silica, amorphous, precipitated and gel
New York	:	None of the components are listed.
New Jersey	:	The following components are listed: 2-Propenenitrile, polymer with Ethenylbenzene Titanium dioxide Iron oxide Silica, amorphous, precipitated and gel Carbon black
Pennsylvania	:	The following components are listed: Titanium dioxide
		Silica, amorphous
		Iron oxide
		Silica, amorphous, precipitated and gel
		Carbon black
California Prop. 65 WARNING: This product contains a	chemi	cal known to the State of California to cause cancer.

•

United States inventory (TSCA 8b) : All components are listed or exempted.



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Canada inventory	:	All components are listed or exempted.
International regulations		
International lists	:	<ul> <li>Australia inventory (AICS): All components are listed or exempted.</li> <li>Taiwan inventory (CSNN): All components are listed or exempted.</li> <li>Malaysia Inventory (EHS Register): Not determined.</li> <li>EINECS: All components are listed or exempted.</li> <li>Japan inventory: Not determined.</li> <li>China inventory (IECSC): All components are listed or exempted.</li> <li>Korea inventory: All components are listed or exempted.</li> <li>New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.</li> <li>Philippines inventory (PICCS): All components are listed or exempted.</li> </ul>
Chemical Weapons Convention List Schedule I Chemicals	:	Not listed
Chemical Weapons Convention List Schedule II Chemicals	:	Not listed
Chemical Weapons Convention List Schedule III Chemicals	:	Not listed

## Section 16. Other information

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History		
Date of printing	:	11/22/2015
Date of issue/Date of revision	:	08/27/2015
Date of previous issue	:	03/20/2014
Version	:	1.3
Key to abbreviations	:	ATE = Acute Toxicity Estimate
		BCF = Bioconcentration Factor
		GHS = Globally Harmonized System of Classification and Labelling of
		Chemicals
		IATA = International Air Transport Association
		IBC = Intermediate Bulk Container
		IMDG = International Maritime Dangerous Goods
		LogPow = logarithm of the octanol/water partition coefficient
		MARPOL $73/78$ = International Convention for the Prevention of Pollution
		From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
		UN = United Nations
References	:	Not available.
Notice to reader		



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