

MAKING A DIFFERENCE AROUND THE WORLD Safety Data Sheet

# Trade name: ArmaFlex 520 Black Contact Adhesive

Current version : 2.0.0, issued: 24.02.2022

Replaced version: 1.0.4, issued: 13.12.2021

Region: USA

# **SECTION 1: Identification**

# 1.1 Product identifier

Trade name

# ArmaFlex 520 Black Contact Adhesive

# 1.2 Recommended use of the chemical and restrictions on use

**Recommended use of the chemical and restrictions on use** Adhesive for processing all flexible Armaflex insulation materials For industrial and professional use only

# Restrictions on use

No data available.

# 1.3 Details of the supplier of the safety data sheet

## Address

Armacell LLC 55 Vilcom Center Drive Suite 200 Chapel Hill, NC 27514 Telephone no. +1 800 866 5638 e-mail info.sds.ai.usmca@armacell.com

# 1.4 Emergency phone number

Armacell LLC +1 919 304 3846

# **SECTION 2: Hazard(s) identification**

# 2.1 Classification of the chemical

# Classification of the chemical in accordance with paragraph (d) of 29 CFR § 1910.1200 "Hazard

Communication" Carcinogenicity - Category 2 Eye Irritation - Category 2A Flammable Liquids - Category 2 Reproductive Toxicity - Category 2 Skin Corrosion / Irritation - Category 2 Skin sensitization - Category 1 Specific Target Organ Toxicity - Repeated or Prolonged Exposure - Category 2 Specific Target Organ Toxicity - Single Exposure - narcotic effects - Category 3

Classification of the chemical with regard to hazards for the aquatic environment in accordance with the UN GHS criteria relevant for dangerous goods transport classification Aquatic Chronic - Category 2

# 2.2 Label elements

Pictogram(s)



## **Signal word** Danger

Hazard Statement(s) Physical hazards Health hazards

Highly flammable liquid and vapor Causes skin irritation May cause an allergic skin reaction Causes serious eye irritation May cause drowsiness or dizziness



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Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated e Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and u Keep away from heat/sparks/open flames/hot surfaces No sr Keep container tightly closed. Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/ lighting/equipment.	
May cause damage to organs through prolonged or repeated e         Precautionary Statement(s)         Prevention         Obtain special instructions before use.         Do not handle until all safety precautions have been read and u         Keep away from heat/sparks/open flames/hot surfaces No sr         Keep container tightly closed.         Ground/bond container and receiving equipment	
Precautionary Statement(s)       Obtain special instructions before use.         Prevention       Obtain special instructions before use.         Do not handle until all safety precautions have been read and u         Keep away from heat/sparks/open flames/hot surfaces No sr         Keep container tightly closed.         Ground/bond container and receiving equipment	
Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and u Keep away from heat/sparks/open flames/hot surfaces No sr Keep container tightly closed. Ground/bond container and receiving equipment	exposure.
Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and u Keep away from heat/sparks/open flames/hot surfaces No sr Keep container tightly closed. Ground/bond container and receiving equipment	
Do not handle until all safety precautions have been read and u Keep away from heat/sparks/open flames/hot surfaces No sr Keep container tightly closed. Ground/bond container and receiving equipment	
Keep container tightly closed. Ground/bond container and receiving equipment	understood.
Ground/bond container and receiving equipment	moking.
Lise explosion-proof electrical/ventilating/ lighting/equipment	
Use non-sparking tools.	
Take precautionary measures against static discharge.	
Avoid breathing mist/vapours/spray.	
Wash thoroughly after handling.	
Use only outdoors or in a well-ventilated area.	
Contaminated work clothing must not be allowed out of the work	
Wear protective gloves/protective clothing/eye protection/face	
Response If on skin (or hair): Take off immediately all contaminated clothi	ing. Rinse skin with
water/shower.	
If inhaled: Remove person to fresh air and keep comfortable fo	
If in eyes: Rinse cautiously with water for several minutes. Ren	nove contact lenses
if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
Get medical advice/attention if you feel unwell.	
Specific treatment (see first aid instruction on this label).	
If skin irritation occurs: Get medical advice/attention.	
Take off contaminated clothing and wash it before reuse.	
Wash contaminated clothing before reuse.	
In case of fire: Use carbon dioxide (CO2), alcohol resistant foa	m extinauishina
powder,water mist to extinguish.	in, oxungulornig
Storage Store in a well-ventilated place. Keep container tightly closed.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Disposal Dispose of contents/container to a facility in accordance with lo	ocal and national
regulations.	
2.3 Labelling information	
No data available	

2.4 Hazards not otherwise classified (HNOC) No data available

# SECTION 3: Composition / information on ingredients

# 3.1 Substances

Not applicable. The product is not a substance.

# 3.2 Mixtures

# Hazardous ingredients

No	Substance name		
	CAS no.	Concentration	%
1	ACETONE		
	67-64-1	>= 25.00 - < 50.00	%-b.w.
2	toluene		
	108-88-3	>= 25.00 - < 50.00	%-b.w.
3	n-hexane		
	110-54-3	>= 25.00 - < 50.00	%-b.w.
4	Formaldehyde, polymer with 4-(1,1-dimethylethyl)phenol		
	25085-50-1	>= 5.00 - < 10.00	%-b.w.
5	Carbon Black		



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1333-86-4	>= 1.00	- <	10.00	%-b.w.

#### 3.3 Other information

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of 29 CFR 1910.1200

# **SECTION 4: First-aid measures**

#### 4.1 Description of necessary first-aid measures

#### General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

#### After inhalation

When inhaled remove to fresh air and seek medical aid.

#### After skin contact

When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

#### After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

#### After ingestion

Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Call a doctor immediately.

# 4.2 Most important symptoms and effects, both acute and delayed

#### Symptoms

Headache; Dizziness; Drowsiness; Nausea; Vomiting

**4.3 Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

# **SECTION 5: Fire-fighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide; Dry chemical extinguisher; Foam; Water spray jet Unsuitable extinguishing media Full water jet

#### 5.2 Specific hazards arising from the chemical

In the event of fire, the following can be released: Carbon dioxide (CO2); Carbon monoxide (CO); Nitrogen oxides (NOx); Hydrogen cyanide (HCN); Hydrogen chloride (HCI)

## 5.3 Special protective equipment and precautions for fire-fighters

Use self-contained breathing apparatus. Wear full protective suit. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Containers close to fire should be transferred to a safe place.

## **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Exclude sources of ignition and ventilate the area. Do not inhale vapours. Remove persons to safety. Ensure adequate ventilation.

#### For emergency responders

Personal protective equipment (PPE) - see Section 8.

# 6.2 Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in suitable container for disposal.

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# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

## Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Risks inherent to handling the product must be minimised by applying appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. For personal protection see section 8.

## General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Remove soiled or soaked clothing immediately. Avoid contact with eyes and skin. Do not inhale vapours. Provide eye wash fountain in work area. Hold emergency shower available.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - refrain from smoking. No sparking tools should be used. Vapours can form an explosive mixture with air. Take precautionary measures against electrostatic loading (earthing necessary during loading operations).

## 7.2 Conditions for safe storage, including any incompatibilities

## Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place. Protect from heat and direct sunlight.

#### Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original.

#### Incompatible products

Do not store together with: Acids; Bases; Oxidizing agents; Do not store with combustible materials.

# **SECTION 8: Exposure controls / personal protection**

#### 8.1 Control parameters

# Occupational exposure limit(s)

No	Substance name	CAS no.			
1	ACETONE	67-64-1			
	ACGIH Threshold Limit Values				
	Acetone				
	STEL			500	ppm
	TWA			250	ppm
	Remarks	A4; BEI			
	OSHA Permissible Exposure Limits (PELS)				
	Acetone				
	TWA	2400	mg/m³	1000	ppm
2	toluene	108-88-3			
	OSHA Permissible Exposure Limits (PELS)				
	Toluene				
	TWA			200	ppm
	Ceiling Limit			300	ppm
	Remarks	Z37.12-1967	7. See Z-2		
	ACGIH Threshold Limit Values				
	Toluene				
	TWA			20	ppm
	Skin resorption / sensibilisation				
	Remarks	OTO; A4; BI	<u>El</u>		
3	n-hexane	110-54-3			
	ACGIH Threshold Limit Values				
	n-Hexane				



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	TWA			50	ppm
	Remarks	Skin; BEI			
	OSHA Permissible Exposure Limits (PELS)				
	n-Hexane				
	TWA	1800	mg/m³	500	ppm
4	Carbon Black	1333-86-4			
	ACGIH Threshold Limit Values				
	Carbon black				
	TWA	3 (I)	mg/m³		
	Remarks	A3			
	OSHA Permissible Exposure Limits (PELS)				
	Carbon black				
	TWA	3.5	mg/m³		

# 8.2 Exposure controls

#### Appropriate engineering controls

Provide good ventilation of working area (local exhaust ventilation if necessary).

## Individual protection measures, such as personal protective equipment

#### **Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respirator AX

# Eye / face protection

No data available.

#### Hand protection

Sufficient protection is given wearing suitable protective gloves in the event of risk of skin contact with the product. Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves. Appropriate Material butyl rubber

Appropriate Material	Dutyi Tubbel		
Material thickness	>	0.7	mm
Inappropriate material	nitrile rubber		
Inappropriate material	PVC		
Inappropriate material	viton		
Inappropriate material	Natural rubber, NR		

# Other protection measures

fire-resistant antistatic protective clothing

# **SECTION 9: Physical and chemical properties**

Form/Color			
liquid			
black			
Odor			
like solvents			
Odor threshold			
No data available			
pH value			
No data available			
Boiling point / boiling range			
Value	>	56.5	°C
Source	supplier		
Melting point / melting range			



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No data available					
Decomposition point / decomposition range					
No data available					
Flash point					
Value		-26	°C		
Method Source	Setaflash closed o supplier	up			
Auto-ignition temperature Value		235	°C		
Source	supplier	200	5		
Oxidising properties					
No data available					
Explosive properties					
No data available					
Flammability					
Not applicable					
Source	supplier				
Lower flammability or explosive limits					
No data available					
Upper flammability or explosive limits					
No data available					
Vapor pressure	T	400			
Value Reference temperature		180 20	mm Hg ℃		
Source	supplier	20			
Vapor density					
No data available					
Evaporation rate					
No data available					
Relative density					
Value	appr.	0.83			
Source	supplier				
Density					
No data available					
Solubility in water					
Source Remarks	supplier immiscible				
Solubility(ies) No data available					
Partition coefficient: n-octanol/water					
No data available					
Viscosity					
Viscosity	>	1000	mm²/s		
Reference temperature		40	°C		
Type Source	kinematic				
	supplier				
Solids content	loppr	10	0/		
Value	appr.	19	%		



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#### Other information

Other information

No data available.

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

No data available.

- **10.2 Chemical stability** Stable under recommended storage and handling conditions(See section 7).
- **10.3 Possibility of hazardous reactions** None, when used as directed.

#### **10.4 Conditions to avoid** Heat, open flames and other sources of ignition.

## **10.5** Incompatible materials strong acids; strong bases; strong oxidising agents; combustible materials

**10.6 Hazardous decomposition products** None, if handled according to intended use. In case of fire: see section 5.

# **SECTION 11: Toxicological information**

## Information on toxicological effects

Acute oral toxicity					
No data available					
Acute dermal toxicity					
No data available					
Acute inhalational toxicity					
No data available					
Skin corrosion/irritation					
No Substance name	CAS no.				
1 toluene	108-88-3				
Method	EU B.4				
Evaluation	irritant				
Species	rabbit				
Source	ECHA				
Serious eye damage/irritation					
No data available					
Respiratory or skin sensitisation					
No data available					
Germ cell mutagenicity					
No data available					
Reproduction toxicity					
No Substance name	CAS no.				
1 toluene	108-88-3				
Route of exposure	inhalational				
Species rats (male/female)					
Method Value taken from the literature					
Source ECHA					
Evaluation/classification Based on available data, the classification criteria are met.					
<b>•</b> • • • • •	•				
Carcinogenicity					



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#### No data available

# NTP Report on Carcinogens (RoC)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed "known" (to be a human carcinogen) or "RAHC" (reasonably anticipated to be a human carcinogen).

# OSHA Standards listing cancer as a health effect (Table VII.6.2)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed as carcinogenic.

IAR	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans							
The	The product contains following substance(s) classified by the IARC Monographs							
No Substance name CAS no. Group								
1	Carbon Black	1333-86-4	2B					
2	toluene	108-88-3	3					
	STOT - single exposure No data available							

STOT - repeated exposure       No     Substance name       CAS no.				
1	toluene	108-88-3		
Rou	te of exposure	inhalative, oral		
Spe	cies	rats (male/female)		
Method		EU Method B.26		
Source		ECHA		
Evaluation/classification		Based on available data, the classification criteria are met.		

### Aspiration hazard

Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Tox	Toxicity to fish (acute)						
No	lo Substance name CAS no.						
1	toluene	108-88-3					
		5.5					
	ation of exposure	96					
Spe		Oncorhynchus kisutch					
Dura	ation of exposure		h mg/l				
Met	hod	Value taken from the literature	ilig/i				
Sou	rce	ECHA					
LC5	0						
Toy	icity to fish (chronic)						
	data available						
INO C							
Тох	icity to Daphnia (acute)						
No	Substance name	CAS no.					
1	toluene	108-88-3					
		3.78					
Dura	ation of exposure	48					
EC5	50						
Met	hod	US EPA 600/4-91-003					
Dura	ation of exposure		h				
			mg/l				
Sou	rce	ECHA					
Spe	cies	Daphnia magna					



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Toxicity to Daphnia (chronic)				
	No data available			
NOC				
Tox	icity to algae (acute)			
No	Substance name	CAS no	).	
1	toluene	108-88-	3	
EC5	0		134	mg/l
Duration of exposure			3	h
Spe	cies	Chlorella vulgaris		
Sou	rce	ECHA		
Tox	Toxicity to algae (chronic)			

No data available

#### 12.2 Persistence and degradability

No data available.

#### **12.3 Bioaccumulative potential** No data available.

#### **12.4 Mobility in soil** No data available.

INU UALA AVAIIADI

#### **12.5 Other adverse effects** No data available.

## 12.6 Other information Other information

Do not discharge into drains or waters and do not dispose of in public landfills.

# **SECTION 13: Disposal considerations**

# 13.1 Disposal considerations

#### Product

Dispose in accordance with federal, state and local regulations.

#### Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in accordance with federal, state and local regulations.

# **SECTION 14: Transport information**

# 14.1 US DOT (Department of Transportation)

Transport hazard class	3
Packaging group	II
UN/NA number	UN1133
UN proper shipping name	Adhesives
Label code(s)	3

## 14.2 Transport IMDG

Class	3
Packaging group	II
UN number	UN1133
Proper shipping name	ADHESIVES
Danger releasing substand	te Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
EmS	F-E, S-D
Label	3
Marine pollutant mark	Symbol "fish and tree"

## 14.3 Transport ICAO-TI / IATA

Class	3
Packaging group	II
UN number	UN1133



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Proper shipping name Adhesives З

#### 14.4 Other information No data available.

Label

#### 14.5 Environmental hazards

Information on environmental hazards, if relevant, pls. see 14.1 - 14.3.

#### 14.6 Special precautions for user

To be transported always in closed, upright and safe containers. Make sure that persons handling these containers are aware of the rules of conduct in case of incident or spillage.

## 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not relevant

# **SECTION 15: Regulatory information**

# 15.1 US Federal Regulations

#### **Toxic Substances Control Act (TSCA)**

According to the data available and/or specifications supplied by upstream suppliers, all components of this product are on the TSCA Inventory or are exempted from notification requirements.

CER	CLA (Comprehensive Environme	ntal Response, Compensation and Liability Act)	
The product contains following substance(s) that are considered being subject to Table 302.4 "List of Hazardous			
Substances and Reportable Quantities"			
No	Substance name	CAS no.	
1	ACETONE	67-64-1	
2	n-hexane	110-54-3	
3	toluene	108-88-3	
Clea	an Air Act (CAA): Hazardous Air P	Pollutants (HAPS)	
The	product contains following substance	e(s) that are considered being "Hazardous Air Pollutants".	
No	Substance name	CAS no.	
1	n-hexane	110-54-3	
2	toluene	108-88-3	
Clean Water Act (CWA) Section 307 (Toxic Pollutants) and Section 311 (Hazardous Substances)			
The	product contains following substance	e(s) that are considered to be "Hazardous Substances".	
No	Substance name	CAS no.	
1	toluene	108-88-3	
EPC	RA SARA Section 313, Toxic Che	mical Release Inventory	
The product contains following substance(s) that are considered being subject to "SARA Reporting".			
No	Substance name	CAS no.	
1	n-hexane	110-54-3	
2	toluene	108-88-3	
Emergency Planning & Community Right-to-Know Act (EPCRA) - Sections 302 and 304			
According to the data available and/or specifications supplied by upstream suppliers, this product does not contain			

any substance(s) that are considered being subject to reporting requirements.

# Clean Air Act (CAA) - Section 602 Ozone depleting substances

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed as ozone depleting substance.

## 15.2 US State Regulations

Pennsylvania State Right to Know Hazardous Substance List				
The	The product contains following substance(s) that are considered to be "Hazardous Substances".			
No	Substance name CAS no.			
1	ACETONE	67-64-1		
2	Carbon Black	1333-86-4		
3	n-hexane	110-54-3		



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4	toluene	108-88-3	
Nev	w Jersey State Right to Know Ha	azardous Substance List	
The	e product contains following substan	nce(s) that are considered to be "Hazardous Substances".	
No	Substance name	CAS no.	
1	ACETONE	67-64-1	
2	Carbon Black	1333-86-4	
3	n-hexane	110-54-3	
4	toluene	108-88-3	
		nce(s) that are considered to be "Hazardous Substances". CAS no.	
No			
1	ACETONE	67-64-1	
2	n-hexane	110-54-3	
3	toluene	108-88-3	
California Code of Regulations Title 8 §339, Hazardous Substances List			
	cording to the data available and/or v substance(s) that are considered	specifications supplied by upstream suppliers, this product does not contain to be "Hazardous Substances".	
Rig	ht to Know - California State - Pi	roposition 65	
		nce(s) that are considered to be "Hazardous Substances"	

The product contains following substance(s) that are considered to be "Hazardous Substances".			
No	Substance name	CAS no.	type of toxicity
1	Carbon Black	1333-86-4	cancer
2	n-hexane	110-54-3	male
3	toluene	108-88-3	developmental

SECTION 16: Other information, including date of preparation or last revision

#### 16.1 Other information

Authors responsible for the compilation of the material safety data sheet: UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de. The information is based on our current knowledge however it does not represent a guarantee of product properties nor does it create any legal obligation.

# 16.2 Date of preparation/revision of the SDS

Current version	2.0.0	24.02.2022
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# 16.4 Conclusions

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Prod-ID 775698

#### 16.5 Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists ATE – Acute Toxicity Estimate BOD - Biochemical Oxygen Demand CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania CAS - Chemical Abstracts Service CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act CFR - Code of Federal Regulations (US) CLP - Classification, Labelling, and Packaging DOT - Department of Transportation Commission ECHA – European Chemicals Agency EC / EL – Effective Concentration / Effective Loading EPA - Environmental Protection Agency IARC - International Agency for Research on Cancer IATA - International Air Transport Association MAKING A DIFFERENCE AROUND THE WORLD Safety Data Sheet

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IBC - Intermediate Bulk Container ICAO - International Civil Aviation Organization IDL - Ingredient Disclosure List IDLH - Immediately Dangerous to Life and Health IMDG - International Maritime Dangerous Goods IUCLID - International Uniform Chemical Information Database Kow - Octanol/water partition coefficient LD/LC - Lethal Dose/ Lethal Concentration MARPOL - Marine Pollution MEL - Maximum Exposure Limits NFPA - National Fire Protection Agency NIOSH - National Institute for Occupational Safety and Health NJTSR - New Jersey Trade Secret Registry NOEL/NOEC - No Observed Effect Level / No Observed Effect Concentration NTP - National Toxicology Program OSHA - Occupational Safety and Health Administration PEL- Permissible Exposure Limit RCRA - Resource Conservation and Recovery Act SARA - Superfund Amendments and Reauthorization Act STEL - Short-term Exposure Limit STOT - Specific Target Organ Toxicity TDG - Transportation of Dangerous Goods TLV - Threshold Limit Value TSCA - Toxic Substances Control Act TWA - Time Weighted Average UN/NA - United Nations /North American US - United States VLE - Exposure Limit Value (Mexico) VOC - Volatile Organic Compounds