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Eastman(TM) SAIB-90 (Sucrose Acetate **Isobutyrate)** PO00080487

Ver 2.1 PRD	sion	Revision Date: 11/12/2018	15	DS Number: 0000001101 SUS / Z8 / 0001	Date of last issue: - Date of first issue: 09/06/2016 N44 / 0038682566 / 0004306357
SEC	CTION 1	. IDENTIFICATION			
	Produc	t name	:	Eastman(TM) SA	IB-90 (Sucrose Acetate Isobutyrate)
	Produc	t code	:	P0450101	
	Manuf	acturer or supplier's	deta	ails	
	Compa	any name of supplier	:	Eastman Chemic	al Company
	Addres	S	:	200 South Wilcox Kingsport TN 376	
	Teleph	one	:	(423) 229-2000	
	Emerg	ency telephone	:	CHEMTREC: +1	-800-424-9300, +1-703-527-3887 CCN7321
	_	nmended use of the c	-		ons on use
	кесот	imended use	- 1	Plasticizer	

Recommended use	: Plasticizer Cosmetic.
Restrictions on use	: None known.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200 Flammable liquids : Category 2					
GHS label elements Hazard pictograms	:				
Signal Word	:	Danger			
Hazard Statements	:	H225 Highly flammable liquid and vapor.			
Precautionary Statements	:	 Prevention: P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/ equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. 			

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FND		30303/28/0001	1144 / 003002300 / 0004300357	

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical name	CAS-No.	Concentration (% w/w)
sucrose acetate isobutyrate	126-13-6, 27216- 37-1, or 137204- 24-1	90
ethyl alcohol	64-17-5	< 10
methyl isobutyl ketone	108-10-1	< 1
methanol	67-56-1	< 0.5

SECTION 4. FIRST AID MEASURES

If inhaled	:	Remove to fresh air. Treat symptomatically. Get medical advice/ attention.
In case of skin contact	:	Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical advice/ attention. Remove person to fresh air. If signs/symptoms continue, get medical attention.
If swallowed	:	Seek medical advice.
Most important symptoms and effects, both acute and delayed	:	Vapors may cause drowsiness and dizziness.
Notes to physician	:	Treat symptomatically.



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SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Dry chemical Carbon dioxide (CO2) Foam
Unsuitable extinguishing media	:	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards during fire fighting	:	Prevent buildup of vapors or gases to explosive concentrations.
Hazardous combustion prod- ucts	:	No hazardous combustion products are known
Further information	:	Use water spray to cool unopened containers.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Wear appropriate personal protective equipment. Local authorities should be advised if significant spillages cannot be contained.
Environmental precautions	:	Avoid release to the environment.
Methods and materials for containment and cleaning up	:	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Flush with water. Clean contaminated surface thoroughly.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Use explosion-proof electrical equipment. Use non-sparking tools. Take precautionary measures against static discharge. Wear personal protective equipment. Wash thoroughly after handling.
Conditions for safe storage	:	Keep containers tightly closed in a dry, cool and well- ventilated place.



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
ethyl alcohol	64-17-5	STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m3	OSHA P0
methyl isobutyl ketone	108-10-1	TWA	20 ppm	ACGIH
		STEL	75 ppm	ACGIH
		ST	75 ppm 300 mg/m3	NIOSH REL
		TWA	50 ppm 205 mg/m3	NIOSH REL
		TWA	100 ppm 410 mg/m3	OSHA Z-1
		TWA	50 ppm 205 mg/m3	OSHA P0
		STEL	75 ppm 300 mg/m3	OSHA P0
methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m3	NIOSH REL
		ST	250 ppm 325 mg/m3	NIOSH REL
		TWA	200 ppm 260 mg/m3	OSHA Z-1
		STEL	250 ppm 325 mg/m3	OSHA P0
		TWA	200 ppm 260 mg/m3	OSHA P0

Engineering measures Good general ventilation (typically 10 air changes per hour) : should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved	Respiratory protection	:	applicable) or to an acceptable level (in countries where
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				respirator must be Wear a positive-p	e worn. ressure supplied-air respirator.		
	Hand protection						
	Ren	narks	:	Wear suitable glo	ves.		
	Eye pro	otection	:	Wear safety glass	es with side shields (or goggles).		
	Protect	ive measures	:	Ensure that eye fl located close to the test of te	ushing systems and safety showers are ne working place.		
	Hygien	e measures	:	Handle in accorda practice.	ance with good industrial hygiene and safety		
SEC	CTION 9	. PHYSICAL AND CHI	EMI		3		
	Appear	ance	:	viscous liquid			
	Color		:	yellow			
	Odor		:	ester-like			
	Odor T	hreshold	:	not determined			
	рН		:	not determined			
	Melting	point/range	:	not determined			
	Boiling	point/boiling range	:	221 °F / 105 °C			
	Flash p	point	:	62.8 °F / 17.1 °C			
				Method: Tag clos	sed cup		
	Evapor	ation rate	:	not determined			
		explosion limit / Upper ability limit	:	not determined			
		explosion limit / Lower ability limit	:	not determined			
	Vapor _I	oressure	:	53.2 mbar (68 °F	/ 20 °C)		
	Relativ	e vapor density	:	1.5			
	Relativ	e density	:	1.10			
	Solubili Wat	ity(ies) ter solubility	:	negligible			

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	ition coefficient: n- nol/water	:	No data available	e
Auto	pignition temperature	:	756 °F / 402 °C Method: ASTM E	659
Dec	omposition temperature	:	Method: DTA No exotherm to 4	450°C
	cosity /iscosity, dynamic	:	not determined	
١	/iscosity, kinematic	:	not determined	
Exp	losive properties	:	No data available	e
Oxio	dizing properties	:	No data available	e

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SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	None reasonably foreseeable.
Chemical stability		Stable under normal conditions.
Possibility of hazardous reac- tions	:	None known. Stable
Conditions to avoid		Heat, flames and sparks.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	Carbon dioxide (CO2) Carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:		
Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

Ingredients:

ethyl alcohol:



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A	cute oral toxicity	:	LD50 Oral (Rat):	10,470 mg/kg
A	cute inhalation toxicity	:	LC50 (Rat): 117 - Exposure time: 4	
A	cute dermal toxicity	:	LD50 Dermal (Ra	bbit): > 15,800 mg/kg
m	ethyl isobutyl ketone:			
A	cute oral toxicity	:	LD50 Oral (Rat):	2,080 mg/kg
A	cute inhalation toxicity	:	LC50 (Rat): 16.4 Exposure time: 4 Test atmosphere:	h
m	ethanol:			
A	cute oral toxicity	:	LD50 Oral (Rat):	5,600 mg/kg
A	cute dermal toxicity	:	LD50 Dermal (Ra	bbit): 17,100 mg/kg
<u>P</u> I R	ot classified based on avail r <u>oduct:</u> emarks ngredients:	:	No data available	
et	hyl alcohol:			
	pecies	:	Rabbit	
	xposure time esult	:	24 h none	
m	ethyl isobutyl ketone:			
	pecies	:	Rabbit	
	xposure time esult	:	72 h none	
m	ethanol:			
	pecies	:	Rabbit	
	xposure time esult	:	72 h none	
	erious eye damage/eye irr ot classified based on availa			
	roduct:		-	
	emarks	:	No data available	



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In	gredients:					
eth	yl alcohol:					
	ecies	•		Rabbit		
	sult		:	slight		
	thyl isobut	tyl ketone:				
	ecies sult		÷	Rabbit Eye irritation		
ive	Suit		•	Lyeimation		
me	thanol:					
Sp	ecies		:	Rabbit		
Re	sult		:	slight to moderate	•	
Re	spiratory o	or skin sensitiza	atio	'n		
	in sensitiza					
		based on availal	hle	information		
		ensitization		monnauon.		
		based on availal	ble	information.		
	oduct:					
	marks		:	No data available		
<u>In</u>	<u>gredients:</u>					
eth	yl alcohol:	:				
	st Type		:	Skin Sensitization		
	ecies		:	Mouse		
Re	sult		÷	non-sensitizing		
me	thanol:					
	st Type		:	Skin Sensitization		
Sp	ecies		:	Guinea pig		
Re	sult		:	non-sensitizing		
60	rm cell mu	tagenicity				
		based on availal	ble	information		
-	rcinogenic					
	-	based on availal	ble	information.		
-	oduct:					
	marks		:	This information is	s not available.	
_		_	•			
IAF	RC	Group 2B: Pos methyl isobuty		bly carcinogenic to l	numans	108-10-1
		memy isobuly	n Ke			100-10-1
OS	SHA	No componen	t of	this product preser	nt at levels greate	er than or equal to 0.1% is

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	on OSHA's	ist of	regulated carcinog	jens.
NTP				t at levels greater than or equal to 0.1% is carcinogen by NTP.
-	oductive toxicity lassified based on avai	lable	information.	
<u>Prod</u> Effec	<u>uct:</u> ts on fertility	:	Remarks: No data	a available
	F-single exposure lassified based on avai	lable	information.	
Prod				
Rema	arks	:	No data available	
Ingre	edients:			
meth				
-	et Organs ssment	:	optic nerve, Centr Causes damage t	ral nervous system to organs.
	F-repeated exposure lassified based on avai	lable	information.	
Prod				
Rema	arks	:	No data available	
Aspir	ration toxicity			
Not c	lassified based on avai	lable	information.	
<u>Prod</u> No da	<u>uct:</u> ata available			
Ingre	<u>edients:</u>			
	yl isobutyl ketone: be harmful if swallowed	and	enters airways.	
Infor	mation on likely route	s of	exposure	
Prod	uct:			
Inhala	ation	:	Remarks: Harmfu High vapor conce	I if inhaled. Intrations may cause drowsiness.
Eye c	contact	:	Remarks: Causes	s eye irritation.
Inges	tion	:	Remarks: None k	nown.

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Ingredients:		
ethyl alcohol:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 15,300 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): 5,012 mg/l Exposure time: 48 h
Toxicity to algae	:	EC50 (Selenastrum capricornutum (green algae)): 275 mg/l Exposure time: 72 h
methyl isobutyl ketone:		
Toxicity to fish	:	LC50 (goldfish): 460 mg/l Exposure time: 24 h
		LC50 (golden orfe): 675 - 750 mg/l Exposure time: 48 h
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): 4,300 mg/l Exposure time: 24 h
		LC50 (Crangon crangon (shrimp)): 1,250 mg/l Exposure time: 24 h
methanol:		
Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h
Toxicity to algae	:	EC50 (Pseudokirchneriella subcapitata (algae)): 22,000 mg/l Exposure time: 96 h
Persistence and degradabili	ity	
Ingredients:		
ethyl alcohol:		
Biodegradability	:	Concentration: 10 mg/l Result: Readily biodegradable. Biodegradation: 84 % Exposure time: 20 d

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	emical Oxygen Demand OD)	:	1,990 mg/g	
me	thyl isobutyl ketone:			
Bic	odegradability	:	Result: Readily bi	odegradable
	ochemical Oxygen De- Ind (BOD)	:	BOD-5: 1,940 - 2,060 mg/	'g
	emical Oxygen Demand DD)	:	2,160 - 2,460 mg/	ġ
Th	OD	:	2,720 mg/g	
me	thanol:			
Bic	odegradability	:	Concentration: 10 Biodegradation: 9 Exposure time: 20	95 %
	ochemical Oxygen De- Ind (BOD)	:	BOD-5: 770 mg/g Incubation time: 5	i d
			BOD-20: 1,260 mg/g Incubation time: 2	20 d
	emical Oxygen Demand OD)	:	1,410 mg/g	
BC	D/COD	:	BOD/COD: 54.6 %	%
Th	OD	:	1,500 mg/g	
BC	D/ThOD	:	51.3 %	
Bio	paccumulative potential			
Inc	redients:			
eth	yl alcohol:			
	paccumulation	:	Remarks: Does n	ot accumulate in organisms.
me	thyl isobutyl ketone:			
Pa	rtition coefficient: n- anol/water	:	Pow: 24 log Pow: 1.38	
me	ethanol:			
	rtition coefficient: n- anol/water	:	Pow: 0.17 log Pow: -0.77	
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Mobility in soil No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR				
UN/ID No.	:	UN 1993		
Proper shipping name	:	Flammable liquid, n.o.s. (ethanol, methanol)		
Class	:	3		
Packing group	:	II		
Labels	:	Flammable Liquids		
Packing instruction (cargo aircraft)	:	364		
Packing instruction (passen- ger aircraft)	:	353		
IMDG-Code				
UN number		UN 1993		
Proper shipping name		FLAMMABLE LIQUID, N.O.S.		
· · · · · · · · · · · · · · · · · · ·	•	(ethanol, methanol)		
Class	:	3		
Packing group	:	11		
Labels	:	3		
EmS Code	:	F-E, S-E		
Marine pollutant	:	no		
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 UN/ID/NA number Proper shipping name	:	UN 1993 Flammable liquids, n.o.s. (ethanol, methanol)
Class	:	3
Packing group	:	11
Labels	:	Class 3 - Flammable Liquid
ERG Code	:	128
Marine pollutant	:	no

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Special precautions for user

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

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ	Calculated product RQ
-		(lbs)	(lbs)
methyl isobutyl ketone	108-10-1	100	100 (F003)
methanol	67-56-1	100	100 (F003)
methyl isobutyl ketone	108-10-1	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

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

Ingredients		CAS-No.	Component TPQ (lbs)
SARA 311/312 Hazards	:	Fire Hazard	
SARA 313 :		known CAS number	not contain any chemical components with rs that exceed the threshold (De Minimis) ablished by SARA Title III, Section 313.

California Prop. 65

WARNING: This product can expose you to chemicals including methyl isobutyl ketone, methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

TSCA	:	On the inventory, or in compliance with the inventory
DSL	:	On the inventory, or in compliance with the inventory
AICS	:	On the inventory, or in compliance with the inventory
ENCS	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
TCSI	:	On the inventory, or in compliance with the inventory

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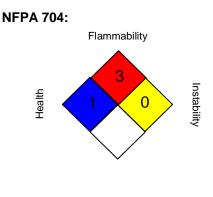
TSCA list

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



Special hazard.

Full toxt of other abbreviations

HMIS® IV:

HEALTH	/ 1
FLAMMABILITY	3
PHYSICAL HAZARD	0

EASTMAN

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations				
	ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)	
	NIOSH REL	:	USA. NIOSH Recommended Exposure Limits	
	OSHA PO	:	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000	
	OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants	
	ACGIH / TWA	:	8-hour, time-weighted average	
	ACGIH / STEL	:	Short-term exposure limit	
	NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek	
	NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday	
	OSHA P0 / TWA	:	8-hour time weighted average	
	OSHA P0 / STEL	:	Short-term exposure limit	
	OSHA Z-1 / TWA	:	8-hour time weighted average	

AICS - Australian Inventory of Chemical Substances; 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

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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 - 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; 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

Revision Date

11/12/2018

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