Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. Date of issue: 04/04/2014 Revision date: 04/04/2014 Version: 1.0

SECTION 1: Identification of the su	bstance	/mixture and of the con	npany/undertaking	q
1.1. Product identifier				
Product form	: Mixtu	re		
Product name	: Radia	ator Cleaner		
Product code	: RC-3	P		
1.2. Relevant identified uses of the sul	ostance or	mixture and uses advised ag	jainst	
Use of the substance/mixture	: Radia	ator Additive.		
1.3. Details of the supplier of the safet	y data she	et		
Justice Brothers, Inc.				
2734 Huntington Drive Duarte, CA - USA 91010 T (626) 359-9174 (M-F, 8am-5pm)				
1.4. Emergency telephone number				
Emergency number	: CHEI	MTREC International +1 (703) \$	527-3887 24 hr	
SECTION 2: Hazards identification				
2.1. Classification of the substance or	mixture			
GHS-US classification				
Serious Eye Irritaton 2A				
2.2. Label elements				
GHS-US labelling				
Hazard pictograms (GHS-US)	:	∧		
		GHS07		
Signal word (GHS-US)	: Warn			
Hazard statements (GHS-US)	: Caus	es serious eye irritation.		
Precautionary statements (GHS-US)	cautio		utes. Remove contact l	n/face protection. If in eyes: Rinse lenses, if present and easy to do. ee/attention.
2.3. Other hazards		<u> </u>		
No additional information available.				
2.4. Unknown acute toxicity (GHS-US)				
2 % of the mixture consists of ingredient(s) of u	inknown ac	ute toxicity.		
SECTION 3: Composition/informati	on on in	gredients		
3.1. Substance				
Not applicable. 3.2. Mixture				
Name		Product identifier	%	GHS-US classification
Sodium xylene sulfonate		(CAS No) 1300-72-7	% 5 - 20	Eye Irrit. 2A
Polyethylene glycol monooleyl ether		(CAS No) 9004-98-2	2 - 2.5	Skin Irrit. 2
The exact percentage (concentration) of compositio	n has been v	withheld as a trade secret in accord	ance with paragraph (i) of (Eye Dam. 1
	n nus been v			
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures after inhalation		athing is difficult, remove victim hing. Get medical advice/attent		t rest in a position comfortable for
First-aid measures after skin contact				al attention if irritation persists.
First-aid measures after eye contact		se of contact, immediately flush move contact lenses, if worn. I		ter for at least 15 minutes. If easy to medical attention.
First-aid measures after ingestion				so by medical personnel. Never giv advice/attention if you feel unwell.

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4.2. Most important sympt	toms and effects, both acute and delay	ved
Symptoms/injuries after inhalation		-
Symptoms/injuries after skin cont	, , ,	ion. Symptoms may include redness, drying, defatting and cracking of the
Symptoms/injuries after eye conta		rritation. Symptoms may include discomfort or pain, excess blinking and marked redness and swelling of the conjunctiva.
Symptoms/injuries after ingestion	. May be harmful if swa	allowed. May cause stomach distress, nausea or vomiting.
4.3. Indication of any imm	ediate medical attention and special t	reatment needed
Symptoms may not appear imme possible).	diately. In case of accident or if you feel	unwell, seek medical advice immediately (show the label or SDS where
SECTION 5: Firefighting	measures	
5.1. Extinguishing media		
Suitable extinguishing media	: Treat for surrounding	material.
Insuitable extinguishing media	: None known.	
5.2. Special hazards arisin	ng from the substance or mixture	
Fire hazard	: Products of combusti	on may include, and are not limited to: oxides of carbon.
5.3. Advice for firefighters		
Protection during firefighting	: Keep upwind of fire. V protection (SCBA).	Near full fire fighting turn-out gear (full Bunker gear) and respiratory
SECTION 6: Accidental re		
	, protective equipment and emergency	y procedures
6.1.1. For non-emergency p		in recorded in Contine O lealets the barrend area and down arts to
Protective equipment	unnecessary and unp	ion recommended in Section 8. Isolate the hazard area and deny entry to protected personnel.
5.1.2. For emergency responses of additional information available		
6.2. Methods and material	I for containment and cleaning up	
For containment		b spill with inert material (e.g. sand, vermiculite), then place in a suitable h to sewer or allow to enter waterways. Use appropriate Personal t (PPE).
Methods for cleaning up		d place in a disposal container.
6.3. Reference to other se	ctions	
See section 8 for further informati	ion on protective clothing and equipment	and section 13 for advice on waste disposal.
SECTION 7: Handling and	d storage	
7.1. Precautions for safe h	nandling	
		in and eyes. Avoid breathing vapour or mist. Do not swallow. Handle and are. When using do not eat, drink or smoke.
Precautions for safe handling	•	
Precautions for safe handling	•	d clothing before reuse. Wash hands before eating, drinking, or smoking.
Precautions for safe handling Hygiene measures	Launder contaminate	
Precautions for safe handling Hygiene measures 7.2. Conditions for safe st	Launder contaminate	d clothing before reuse. Wash hands before eating, drinking, or smoking. n of children. Keep container tightly closed.
Precautions for safe handling Hygiene measures 7.2. Conditions for safe st Storage conditions 7.3. Specific end use(s)	Launder contaminate	
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Precautions for safe handling Hygiene measures 7.2. Conditions for safe st Storage conditions 7.3. Specific end use(s) Not available. SECTION 8: Exposure co	Exaunder contaminate torage, including any incompatibilities Except out of the reach	
Precautions for safe handling Hygiene measures 7.2. Conditions for safe st Storage conditions 7.3. Specific end use(s) Not available. SECTION 8: Exposure co	E Launder contaminate torage, including any incompatibilities E Keep out of the reach	
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Precautions for safe handling Hygiene measures 7.2. Conditions for safe st Storage conditions 7.3. Specific end use(s) Not available. SECTION 8: Exposure co 8.1. Control parameters Sodium xylene sulfonate (130 USA ACGIH	E Launder contaminate torage, including any incompatibilities E Keep out of the reach E Marcontrols/personal protection	n of children. Keep container tightly closed.
Precautions for safe handling Hygiene measures 7.2. Conditions for safe st Storage conditions 7.3. Specific end use(s) Not available. SECTION 8: Exposure co 8.1. Control parameters Sodium xylene sulfonate (130 USA ACGIH	: Launder contaminate torage, including any incompatibilities : Keep out of the reach ontrols/personal protection 00-72-7) ACGIH TWA OSHA PEL (TWA)	n of children. Keep container tightly closed.
Precautions for safe handling Hygiene measures 7.2. Conditions for safe st Storage conditions 7.3. Specific end use(s) Not available. SECTION 8: Exposure co 8.1. Control parameters Sodium xylene sulfonate (130 USA ACGIH USA OSHA Polyethylene glycol monooleg	: Launder contaminate torage, including any incompatibilities : Keep out of the reach ontrols/personal protection 00-72-7) ACGIH TWA OSHA PEL (TWA)	n of children. Keep container tightly closed.
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Appropriate engineering controls

: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

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Hand protection	: Wear chemically resistant protective gloves.
Eye protection	: Safety glasses or goggles are recommended when using product.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. 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.
Environmental exposure controls	: Maintain levels below Community environmental protection thresholds.
Other information	 Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemica	properties
9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Appearance	: Clear.
Colour	: Light blue.
Odour	: Mild.
Odour threshold	: No data available.
pH	: No data available.
Relative evaporation rate (butylacetate=1)	: No data available.
Melting point	: No data available.
Freezing point	: No data available.
Boiling point	: 100 °C (212 °F)
Flash point	: No data available.
Self ignition temperature	: No data available.
Decomposition temperature	: No data available.
Flammability (solid, gas)	: Not Flammable.
Vapour pressure	: No data available.
Relative vapour density at 20 °C	: No data available.
Relative density	: 1.05 g/cm ³
Solubility	: No data available. : No data available.
Log Pow Log Kow	: No data available.
Viscosity, kinematic	: No data available.
Viscosity, dynamic	: No data available.
Explosive properties	: No data available.
Oxidising properties	: No data available.
Explosive limits	: No data available.
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	v
10.1. Reactivity	
No dangerous reaction known under condition	s of normal use.
10.2. Chemical stability	
Stable under normal storage conditions.	
10.3. Possibility of hazardous reactions	
No dangerous reaction known under condition	s of normal use.
10.4. Conditions to avoid	
None known.	
10.5. Incompatible materials	
None known.	
10.6. Hazardous decomposition produc	ts
May include, and are not limited to: oxides of o	arbon.

May include, and are not limited to: oxides of carbon.

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according to the Hazard Communication Standard (CFR29	1910.1200) Hazcom 2012.
SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified.
Radiator Cleaner	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	> 20 mg/l/4h
Sodium xylene sulfonate (1300-72-7)	
LD50 oral rat	7200 mg/kg
Polyethylene glycol monooleyl ether (9004-98	3-2)
LD50 oral rat	2700 mg/kg
Skin corrosion/irritation	: Based on available data, the classification criteria are not met.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/injuries after ingestion	: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: May cause long-term adverse effects in the aquatic environment.
12.2. Persistence and degradability	
Radiator Cleaner	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
Radiator Cleaner	
Bioaccumulative potential	Not established.

No additional information available.

Mobility in soil

12.4.

12.5. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations 13.1. Waste treatment methods

13.1. Waste treatment metho Waste disposal recommendations

: This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

SECTION 14: Transport information	
In accordance with DOT.	
14.1. UN number	
Not applicable.	
14.2. UN proper shipping name	
Not applicable.	
14.3. Additional information	
Other information	: No supplementary information available.
Special transport precautions	: Do not handle until all safety precautions have been read and understood.

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SECTION 15: Regulatory information	
15.1. US Federal regulations	
Sodium xylene sulfonate (1300-72-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Polyethylene glycol monooleyl ether (9004-98-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
15.2. US State regulations	

No additional information available.

SECTION 16: Other inform	hation
Indication of changes	: None.
Date of issue	: 04/04/2014
Other information	: None.
NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product