



	substance/mixture and of the cor	nbanv/undertak	ing and a state of the state of the state of the
1.1. Product identifier		and and a second s	
Product form	: Mixture		
Product name	: RT150S G or D Super Blu		
1.2. Relevant identified uses of the	substance or mixture and uses advised a	gainst	
1.3. Details of the supplier of the sa	fety data sheet	All Martin Constant and	
Refrigeration Technologies 1111 N. Armando St. Anaheim, CA 92806 - USA T 1-800-869-1407 <u>www.refrigtech.com</u>			
1.4. Emergency telephone number			
Emergency number	: 1-800-255-3924 ChemTel; Internat	ional Calls 1-813-24	8-0585
SECTION 2: Hazards identification	on .		
2.1. Classification of the substance			
GHS-US classification			
Not classified			
2.2. Label elements			
GHS-US labelling			
No labelling applicable			
3			
2.3. Other hazards		and the second second	
vo additional information available			
Vo additional information available 2.4. Unknown acute toxicity (GHS-U	(S)		
Vo additional information available 2.4. Unknown acute toxicity (GHS-U No data available			
Vo additional information available 2.4. Unknown acute toxicity (GHS-U No data available SECTION 3: Composition/inform			
Vo additional information available 2.4 Unknown acute toxicity (GHS-U No data available SECTION 3: Composition/inform 3.1 Substance			
Vo additional information available 2.4. Unknown acute toxicity (GHS-U No data available SECTION 3: Composition/inform 3.1. Substance Not applicable			
No additional information available 2.4 Unknown acute toxicity (GHS-U No data available SECTION 3: Composition/inform 3.1 Substance Not applicable Full text of H-phrases: see section 16			
Vo additional information available 2.4 Unknown acute toxicity (GHS-U No data available SECTION 3: Composition/inform 3.1 Substance Not applicable Full text of H-phrases: see section 16			
No additional information available Unknown acute toxicity (GHS-U No data available SECTION 3: Composition/inform 3.1 Substance Not applicable Full text of H-phrases: see section 16 3.2 Mixture Name		%	GHS-US classification
Vo additional information available 2.4. Unknown acute toxicity (GHS-U No data available SECTION 3: Composition/inform 3.1. Substance Not applicable Full text of H-phrases: see section 16 3.2. Mixture	ation on ingredients	<u>%</u> 50	GHS-US classification Not classified
Vo additional information available 2.4 Unknown acute toxicity (GHS-U No data available SECTION 3: Composition/inform 3.1 Substance Not applicable Full text of H-phrases: see section 16 3.2 Mixture Name 1,2-propanediol	ation on ingredients Product identifier		
No additional information available 2.4. Unknown acute toxicity (GHS-U No data available SECTION 3: Composition/inform 3.1. Substance Not applicable Full text of H-phrases: see section 16 3.2. Mixture Name	ation on ingredients           Product identifier           (CAS No)57-55-6		
No additional information available Unknown acute toxicity (GHS-U No data available SECTION 3: Composition/inform 1. Substance Not applicable Full text of H-phrases: see section 16 3.2 Mixture Name 1,2-propanediol SECTION 4: First aid measures 1.1 Description of first aid measures	ation on ingredients           Product identifier           (CAS No)57-55-6	50 unconscious person	Not classified
Ao additional information available (4) Unknown acute toxicity (GHS-U (5) data available <b>SECTION 3: Composition/inform</b> (1) Substance Not applicable Full text of H-phrases: see section 16 (2) Mixture Name 1,2-propanediol <b>SECTION 4: First aid measures</b> (1) Description of first aid measures irst-aid measures general	ation on ingredients Product identifier (CAS No)57-55-6 S : Never give anything by mouth to an	50 unconscious person ble).	Not classified
No additional information available Unknown acute toxicity (GHS-U No data available ECTION 3: Composition/inform 1.1 Substance Not applicable Full text of H-phrases: see section 16 2.2 Mixture Name 1,2-propanediol ECTION 4: First aid measures 1. Description of first aid measures 5.1 Description of first aid measures 5.1 Description of first aid measures 5.2 Section 16 5.2 Sectio	ation on ingredients Product identifier (CAS No)57-55-6 S Never give anything by mouth to an advice (show the label where possit Assure fresh air breathing. Allow the	50 unconscious person ble). e victim to rest.	Not classified
lo additional information available Unknown acute toxicity (GHS-U lo data available ECTION 3: Composition/inform 1. Substance Not applicable full text of H-phrases: see section 16 2. Mixture Name 1.2-propanediol ECTION 4: First aid measures 1. Description of first aid measures irst-aid measures after inhalation irst-aid measures after skin contact	ation on ingredients Product identifier (CAS No)57-55-6 S Never give anything by mouth to an advice (show the label where possit Assure fresh air breathing. Allow the Remove affected clothing and wash	50 unconscious person ole). e victim to rest. all exposed skin are	Not classified . If you feel unwell, seek medical a with mild soap and water, followed
No additional information available Unknown acute toxicity (GHS-U No data available ECTION 3: Composition/inform 1.1 Substance Not applicable Full text of H-phrases: see section 16 2.2 Mixture Name 1.2-propanediol ECTION 4: First aid measures 1.1 Description of first aid measures irst-aid measures after inhalation irst-aid measures after skin contact irst-aid measures after eye contact	ation on ingredients           Product identifier           (CAS No)57-55-6           S           : Never give anything by mouth to an advice (show the label where possit)           : Assure fresh air breathing. Allow the           : Remove affected clothing and wash by warm water rinse.           : Rinse immediately with plenty of wa	50 unconscious person ole). e victim to rest. all exposed skin are ter. Obtain medical a	Not classified . If you feel unwell, seek medical a with mild soap and water, followed attention if pain, blinking or redness
Vo additional information available 2.4. Unknown acute toxicity (GHS-U No data available SECTION 3: Composition/inform 3.1. Substance Not applicable Full text of H-phrases: see section 16 3.2. Mixture Name 1,2-propanediol SECTION 4: First aid measures	ation on ingredients           Product identifier           (CAS No)57-55-6           S           : Never give anything by mouth to an advice (show the label where possite)           : Assure fresh air breathing. Allow the is Remove affected clothing and wash by warm water rinse.           : Rinse immediately with plenty of wa persist.           : Rinse mouth. Do NOT induce vomities	50 unconscious person ole). e victim to rest. all exposed skin are ter. Obtain medical a	Not classified . If you feel unwell, seek medical a with mild soap and water, followed attention if pain, blinking or redness

10/15/2014

SECTION 5: Firefighting measu	res
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from t	he substance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any
Protection during firefighting	chemical fire. Avoid (reject) fire-fighting water to enter environment. Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release	
	ive equipment and emergency procedures
6.1.1. For non-emergency personne Emergency procedures	
inergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
	. Notify authorities if liquid enters sewers or public waters.
AND ADDRESS OF THE OWNER AND ADDRESS OF THE ADDRESS	- · · · · · · · · · · · · · · · · · · ·
6.3 Methods and material for cont	tainment and cleaning up
	<ul> <li>tainment and cleaning up</li> <li>Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials.</li> </ul>
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect
Methods for cleaning up 6.4. Reference to other sections	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials.
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and pe	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials.
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and pe SECTION 7: Handling and stora	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials. rsonal protection. ge
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and pe SECTION 7: Handling and stora 7.1. Precautions for safe handling	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials. rsonal protection. Ige
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and pe SECTION 7: Handling and stora 7.1. Precautions for safe handling	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials. rsonal protection. ge
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and pe SECTION 7: Handling and stora 7.1. Precautions for safe handling Precautions for safe handling	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials.  rsonal protection.  ge  Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and pe SECTION 7: Handling and stora 7.1. Precautions for safe handling Precautions for safe handling 7.2. Conditions for safe storage, in	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials.  rsonal protection.  ge  Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.  ncluding any Incompatibilities  Keep only in the original container in a cool, well ventilated place away from : Keep container
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and pe SECTION 7: Handling and stora 7.1. Precautions for safe handling Precautions for safe handling 7.2. Conditions for safe storage, in Storage conditions	<ul> <li>Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials.</li> <li>rsonal protection.</li> <li>Ige</li> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.</li> <li>hcluding any incompatibilities</li> <li>Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.</li> </ul>
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and pe <b>SECTION 7: Handling and stora</b> 7.1. Precautions for safe handling Precautions for safe handling 7.2. Conditions for safe storage, in Storage conditions ncompatible products	<ul> <li>Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials.</li> <li>rsonal protection.</li> <li>Ige</li> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.</li> <li>hcluding any incompatibilities</li> <li>Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.</li> <li>Strong bases. Strong acids.</li> </ul>
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and pe <b>SECTION 7: Handling and stora</b> 7.1. Precautions for safe handling Precautions for safe handling 7.2. Conditions for safe storage, in Storage conditions Incompatible products Incompatible materials	<ul> <li>Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials.</li> <li>rsonal protection.</li> <li>Ige</li> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.</li> <li>hcluding any incompatibilities</li> <li>Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.</li> </ul>
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and pe <b>SECTION 7: Handling and stora</b> 7.1. Precautions for safe handling Precautions for safe handling 7.2. Conditions for safe storage, in Storage conditions Incompatible products Incompatible materials Storage temperature	<ul> <li>Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials.</li> <li>rsonal protection.</li> <li>Ige</li> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.</li> <li>Including any incompatibilities</li> <li>Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.</li> <li>Strong bases. Strong acids.</li> <li>Sources of ignition. Direct sunlight.</li> </ul>
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and pe <b>SECTION 7. Handling and stora</b> 7.1. Precautions for safe handling Precautions for safe handling 7.2. Conditions for safe storage, in Storage conditions Incompatible products Incompatible materials	<ul> <li>Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials.</li> <li>rsonal protection.</li> <li>Ige</li> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.</li> <li>Including any incompatibilities</li> <li>Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.</li> <li>Strong bases. Strong acids.</li> <li>Sources of ignition. Direct sunlight.</li> </ul>
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and pe <b>SECTION 7: Handling and stora</b> 7.1. Precautions for safe handling Precautions for safe handling 7.2. Conditions for safe storage, in Storage conditions Incompatible products Incompatible materials Storage temperature 7.3. Specific end use(s) No additional information available	<ul> <li>Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials.</li> <li>rsonal protection.</li> <li>ge</li> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.</li> <li>ncluding any incompatibilities</li> <li>Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.</li> <li>Strong bases. Strong acids.</li> <li>Sources of ignition. Direct sunlight.</li> <li>&gt;= 25 (5 - 42) °C</li> </ul>
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and pe <b>SECTION 7: Handling and stora</b> 7.1. Precautions for safe handling Precautions for safe handling 7.2. Conditions for safe storage, in Storage conditions Incompatible products Incompatible materials Storage temperature 7.3. Specific end use(s) No additional information available <b>SECTION 8: Exposure controls</b> /	<ul> <li>Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials.</li> <li>rsonal protection.</li> <li>ge</li> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.</li> <li>ncluding any incompatibilities</li> <li>Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.</li> <li>Strong bases. Strong acids.</li> <li>Sources of ignition. Direct sunlight.</li> <li>&gt;= 25 (5 - 42) °C</li> </ul>
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and pe <b>SECTION 7: Handling and stora</b> 7.1. Precautions for safe handling Precautions for safe handling 7.2. Conditions for safe storage, in Storage conditions Incompatible products Incompatible materials Storage temperature 7.3. Specific end use(s) No additional information available <b>SECTION 8: Exposure controls</b> 8.1. Control parameters	<ul> <li>Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials.</li> <li>rsonal protection.</li> <li>ge</li> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.</li> <li>ncluding any incompatibilities</li> <li>Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.</li> <li>Strong bases. Strong acids.</li> <li>Sources of ignition. Direct sunlight.</li> <li>&gt;= 25 (5 - 42) °C</li> </ul>
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and pe <b>SECTION 7: Handling and stora</b> 7.1. Precautions for safe handling Precautions for safe handling 7.2. Conditions for safe storage, in Storage conditions Incompatible products Incompatible materials Storage temperature 7.3. Specific end use(s) No additional information available <b>SECTION 8: Exposure controls</b> 8.1. Control parameters	<ul> <li>Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials.</li> <li>rsonal protection.</li> <li>ge</li> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.</li> <li>ncluding any incompatibilities</li> <li>Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.</li> <li>Strong bases. Strong acids.</li> <li>Sources of ignition. Direct sunlight.</li> <li>&gt;= 25 (5 - 42) °C</li> </ul>
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and pe <b>SECTION 7: Handling and stora</b> 7.1. Precautions for safe handling Precautions for safe handling 7.2. Conditions for safe storage, in Storage conditions Incompatible products Incompatible products Storage temperature 7.3. Specific end use(s) No additional information available <b>SECTION 8: Exposure controls/</b> 8.1. Control parameters No additional information available	<ul> <li>Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials.</li> <li>rsonal protection.</li> <li>ge</li> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.</li> <li>ncluding any incompatibilities</li> <li>Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.</li> <li>Strong bases. Strong acids.</li> <li>Sources of ignition. Direct sunlight.</li> <li>&gt;= 25 (5 - 42) °C</li> </ul>
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and pe <b>SECTION 7: Handling and stora</b> 7.1. Precautions for safe handling Precautions for safe handling 7.2. Conditions for safe storage, in Storage conditions Incompatible products Incompatible products Incompatible materials Storage temperature 7.3. Specific end use(s) No additional information available <b>SECTION 8: Exposure controls/</b> 8.1. Control parameters No additional information available	<ul> <li>Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials.</li> <li>rsonal protection.</li> <li>ge</li> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.</li> <li>ncluding any incompatibilities</li> <li>Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.</li> <li>Strong bases. Strong acids.</li> <li>Sources of ignition. Direct sunlight.</li> <li>&gt;= 25 (5 - 42) °C</li> </ul>
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and pe <b>SECTION 7: Handling and stora</b> 7.1. Precautions for safe handling Precautions for safe handling 7.2. Conditions for safe storage, in Storage conditions Incompatible products Incompatible products Incompatible materials Storage temperature 7.3. Specific end use(s) No additional information available <b>SECTION 8: Exposure controls</b> 8.1. Control parameters No additional information available 8.2. Exposure controls	<ul> <li>Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials.</li> <li>rsonal protection.</li> <li>ge</li> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.</li> <li>teluding any incompatibilities</li> <li>Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.</li> <li>Strong bases. Strong acids.</li> <li>Sources of ignition. Direct sunlight.</li> <li>&gt;= 25 (5 - 42) °C</li> </ul> Ipersonal protection : Avoid all unnecessary exposure.
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and pe <b>SECTION 7: Handling and stora</b> 7.1. Precautions for safe handling Precautions for safe handling 7.2. Conditions for safe storage, in Storage conditions Incompatible products Incompatible products Incompatible materials Storage temperature 7.3. Specific end use(s) No additional information available <b>SECTION 8: Exposure controls</b> 8.1. Control parameters No additional information available 8.2. Exposure controls Personal protective equipment	<ul> <li>Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials.</li> <li>rsonal protection.</li> <li>ge</li> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.</li> <li>cluding any incompatibilities <ul> <li>Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.</li> <li>Strong bases. Strong acids.</li> <li>Sources of ignition. Direct sunlight.</li> <li>&gt;= 25 (5 - 42) °C</li> </ul> </li> <li><i>Personal protection</i> <ul> <li>Avoid all unnecessary exposure.</li> <li>Wear protective gloves.</li> </ul> </li> </ul>
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and pe <b>SECTION 7: Handling and stora</b> 7.1. Precautions for safe handling Precautions for safe handling 7.2. Conditions for safe storage, in Storage conditions Incompatible products Incompatible materials Storage temperature 7.3. Specific end use(s) No additional information available <b>SECTION 8: Exposure controls</b> 8.1. Control parameters No additional information available 8.2. Exposure controls Personal protective equipment Hand protection	<ul> <li>Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials.</li> <li>rsonal protection.</li> <li>ge</li> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.</li> <li>teluding any incompatibilities</li> <li>Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.</li> <li>Strong bases. Strong acids.</li> <li>Sources of ignition. Direct sunlight.</li> <li>&gt;= 25 (5 - 42) °C</li> </ul> Ipersonal protection : Avoid all unnecessary exposure.

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>SECTION 9: Physical and chemical</b>		
9.1. Information on basic physical and	chemical properties	and the second second
Physical state	: Liquid	
Colour	: Blue.	
Odour	: Characteristic odour.	
Odour threshold	: No data available	
pН	: >= 7.5 (7 - 8)	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	No data available	
Freezing point	: <= -36 °C	
Boiling point	: >= 100 °C	
Flash point	: None	
Self ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Density	: >= 1.05 g/ml	
Solubility	: Soluble in water.	
Log Pow	: No data available	
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		and the second
VOC content	: <= 500 g/l LVP-VOC	Barris and Barris
SECTION 10: Stability and reactivity	y and a second	
10.1. Reactivity		Contraction of the local division of the loc
No additional information available		
10.2. Chemical stability		
Not established.		
10.3. Possibility of hazardous reactions		
Not established.		Contraction of the
10.4. Conditions to avoid		

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

Acute toxicity

## 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

11.1. Information on toxicological effects

## : Not classified

1,2-propanediol (57-55-6)		
LD50 oral rat	20000 mg/kg (Rat; Experimental value,Rat; Experimental value)	TAL PARK TO BE AND THE
LD50 dermal rat	22500 mg/kg (Rat; Experimental value, Rat; Experimental value)	
10/15/2014	EN (English)	3/6

1,2-propanediol (57-55-6)	
LD50 dermal rabbit	20800 mg/kg (Rabbit; Experimental value, Rabbit; Experimental value)
Skin corrosion/irritation	: Not classified
	pH: >= 7.5 (7 - 8)
Serious eye damage/irritation	Not classified
	pH: >= 7.5 (7 - 8)
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
2 A	
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated xposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and	Based on available data, the classification criteria are not met.
ymptoms	
SECTION 12: Ecological information	
2.1. Toxicity	
	· Deadily biodegradely 20 days
Ecology - general	: Readily biodegradable 28 days.
1,2-propanediol (57-55-6)	
LC50 fishes 1	51400 mg/l (96 h; Pimephales promelas)
LC50 other aquatic organisms 1	> 1000 mg/l (96 h)
EC50 Daphnia 1	34400 mg/l (48 h; Daphnia magna)
LC50 fish 2	51600 mg/l (96 h; Oncorhynchus mykiss)
TLM fish 1	> 1000 ppm (96 h; Pisces)
TLM other aquatic organisms 1	> 1000 ppm (96 h)
Threshold limit other aquatic organisms 1	> 1000 mg/l (96 h)
Threshold limit algae 1	15000 mg/l (336 h; Selenastrum capricornutum)
Threshold limit algae 2	< 5300 mg/l (336 h; Skeletonema costatum)
2.2. Persistence and degradability	
RT150S G or D Super Blu	
Persistence and degradability	Biodogradable in the sail. Biodogradable is write Mid established
	Biodegradable in the soil. Biodegradable in water. Not established.
1,2-propanediol (57-55-6)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.
Biochemical oxygen demand (BOD)	0.96 - 1.08 g O <sup>2</sup> /g substance
Chemical oxygen demand (COD)	1.63 g O <sup>2</sup> /g substance
ThOD	1.69 g O <sup>2</sup> /g substance
BOD (% of ThOD)	0.57 % ThOD
2.3. Bioaccumulative potential	
RT150S G or D Super Blu	
Bioaccumulative potential	Not established.
1,2-propanediol (57-55-6)	
Log Pow	-1.410.30
Bioaccumulative potential	Not bioaccumulative.
2.4. Mobility in soil	
RT150S G or D Super Blu	
Ecology - soil	Not toxic to plants. Not toxic to animals.
1,2-propanediol (57-55-6)	

1

1

Zher information :: No other effects known. Avoid release to the environment.   SECTION 15: DEsposed considerations :: Dispose in a safe manner in accordance with localinational regulations.   Waste disposal recommendations :: Dispose in a safe manner in accordance with localinational regulations.   Section 14: Transport information :: Avoid release to the environment.   SECTION 14: Information :: No supplementary information available.   Other information available :: Information available   Section 16: Section available :: Information   State on the United States TSCA (Toxic Substances Control Act) inventory :: Information available   State on the United States TSCA (Toxic Substances Control Act) inventory :: Information available   State on the United States TSCA (Toxic Substances Control Act) inventory :: Information available   State on the United States TSCA (Toxic Substances Control Act) inventory :: Information available   State on the United States TSCA (Toxic Substances Control Act) inventory :: Information available   States on the United States TSCA (Toxic Substances Control Act) inventory :: Information available   States on the United States TSCA (Toxic Substances Control Act) inventory :: Information available   States on the United States TSCA (Toxic Substances	2.5. Other adverse effects	
SECTION 13: Disposal considerations         3.1] Waste treatment methods         Yeak disposal recommendations       Dispose in a safe manner in accordance with locatinational regulations.         Scology - waste materials       Avoid release to the environment.         SECTION 141: Transport Information       Information         In accordance with DOT       Io dangerous good in sense of transport regulations         Goldinal information       IN o supplementary information available.         UDR       Transport document description         Transport document description       Intermediation         Intermston       IN o supplementary information available.         IDR       Information available         Transport document description       Intermston         Intermational information available       Intermation         ECTION 13: Regulators       Intermation         51: US Federal regulations       Intermation         Is definitional information       This product does not require hazardous labeling or symbols         S2: Intermational regulations       Intermation         Is definition according to Directive 57/54#/EEC or 1999/45/EC       Intermation available         It Aegulations       Intermation available       Intermation         It Aegulation according to Directive 57/54#/EEC or 1999/45/EC       Intermation available <td>Other information</td> <td>: No other effects known. Avoid release to the environment</td>	Other information	: No other effects known. Avoid release to the environment
3.1       Waste treatment methods         Vaste disposed in seale commendations       Dispose in a safe manner in accordance with locatinational regulations.         Scology - waste materials       Avoid release to the environment.         SECTION4LETERSport information       accordance with DOT         accordance with DOT       bid angenus good in serise of transport regulations         Udditional information       :         Tamsport document description       :         'ransport document description       :         'stansport document description       :         'stanstanset       :		
Wate disposal recommendations       Explose in a safe manner in accordance with localinational regulations.         Secology - waste materials       Evolor felease to the environment.         Secology - waste materials       Evolor felease to the environment.         Secology - waste materials       No supplementary information available.         Other information       No supplementary information available.         OPR       Image: Secology - Waster materials         Years port document description       Image: Secology - Waster materials         Transport document description       Image: Secology - Waster materials         Secology - Waster materials       Image: Secology - Waster materials         Secology - Waster materials       Image: Secology - Waster materials         Secology - Waster materials       Image: Secology - Waster materials         OPR       Image: Secology - Waster materials         Transport document description       Image: Secology - Waster materials         Secology - Waster materials       Image: Secology - Waster materials         Secology - Waster materials       Image: Secology - Waster materials         Secology - Waster materials       Image: Secology - Waster Materials         Secology - Waster materials       Image: Secology - Waster Materials         Secology - Waster Materials       Image: Secology - Waster Materials         S		itions
icology - waste materials       Avoid release to the environment.         SECTION 14: Transport Information       accordance with DOT         is dangeous good in sense of transport regulations       diditional information         Ubber Information       :: No supplementary information available.         DR       :: Transport by sea         is additional information available       :: Transport by sea         Section 15: Regulations (57-56-6)       :: Transport by sea         is additional information available       :: Transport by sea         Section 16: State TSCA (Toxic Substances Control Act) inventory       :: Transport by sea         is additional information available       :: This product does not require hazardous labeling or symbols         :: Ubg tadditional information available       :: This		
SECTION 14: Transport information         n accordance with DOT         to dangerous good in sense of transport regulations         didditional information         Transport document description         ::         transport by sea         to additional information available         ::         i: Transport document description         ::         ::         to additional information available         :: <td::< td="">         ::</td::<>		
A accordance with DOT Ato dangerous good in sense of transport regulations diditional information No supplementary information available. NDR Transport document description : Transport by sea to additional information available SECTION 15: Regulatory information 6: US Federal regulations 12-propanediol (57-55-6) Listed on the United States TSCA (Toxic Substances Control Act) inventory 5:2. International regulations ANADA RT160S G or D Super Blu Withits Classification Additional information available Classification according to Regulation (EC) No. 1272/2008 (CLP) Classification according to Directive 57/548/EEC or 1998/45/EC to classified 5:2. US State regulations to additional information available 5:3. US State regulations 5:3. US State regulat	cology - waste materials	: Avoid release to the environment.
Ab dangerous good in sense of transport regulations	SECTION 14: Transport informat	ion
Idditional information       No supplementary information available.         DR       Information available.         Image: Transport by sea       Image: Transport by sea         Image: Transport by sea       The product does not require hazardous labeling or symbols         Image: Transport by sea       This product does not require hazardous labeling or symbols         Image: Transport by sea       This product does not require hazardous labeling or symbols	n accordance with DOT	
Ather information : No supplementary information available.   UPR Transport document description Transport by sea to additional information available to transport to additional information available SECTION 15: Regulatory information Set Transport Provide States TSCA (Toxic Substances Control Act) inventory Set. International regulations 12-propandial (57-55-6) Listed on the United States TSCA (Toxic Substances Control Act) inventory Set. International regulations ANADA RT160S G or D Super Blu WHMIS Classification This product does not require hazardous labeling or symbols Use additional information available Set. Internation according to Regulation (EC) No. 1272/2008 (CLP) States regulations to additional information available Set. US State regulations Sat. New Jersey - Right to Know Hazard		gulations
DR Tansport document description Tansport by sea to additional information available SECTION 15: Regulations C1.US Federal regulations C3.US Federal regulations C4.Propanediol (67-55-6) Listed on the United States TSCA (Toxic Substances Control Act) inventory C5.Uniternational regulations C5.Uniternational regulations C5.UNITERNATION C5.UNITERNATI		
ransport document description ransport by sea lo additional information available litr transport lo additional information available SECTION 15: Regulatory information E.1. US Federal regulations 1.2-propanedici (57-55-6) Listed on the United States TSCA (Toxic Substances Control Act) inventory 5.2. International regulations 2.2. International regulations 2.3. International regulations IV-Regulations IV-Regulations IV-Regulation according to Regulation (EC) No. 1272/2008 [CLP] Classification according to Directive 67/548/EEC or 1999/45/EC Ivid Classified 5.2.1. National regulations E.3. US State regulations E.3. US State regulations E.3. US State regulations List New Jersey - Right to Know Hazardous Substance List ECTION 16: Other Information	Other information	: No supplementary information available.
ransport document description ransport by sea lo additional information available litr transport lo additional information available SECTION 15: Regulatory information E.1. US Federal regulations 1.2-propanedici (57-55-6) Listed on the United States TSCA (Toxic Substances Control Act) inventory 5.2. International regulations 2.2. International regulations 2.3. International regulations IV-Regulations IV-Regulations IV-Regulation according to Regulation (EC) No. 1272/2008 [CLP] Classification according to Directive 67/548/EEC or 1999/45/EC Ivid Classified 5.2.1. National regulations E.3. US State regulations E.3. US State regulations E.3. US State regulations List New Jersey - Right to Know Hazardous Substance List ECTION 16: Other Information		
Iransport by sea No additional information available SECTION 15: Regulatory information 6:1.US Federal regulations 1:2-propanediol (57-55-6) Listed on the United States TSCA (Toxic Substances Control Act) inventory 5:2. International regulations 5:2. International regulations 5:2. International regulations 5:2. International regulations 5:2. International regulations 5:2. ANADA RT150S G or D Super Blu WHMIS Classification 1:U-Regulations Iso additional information available Sussification according to Regulation (EC) No. 1272/2008 [CLP] Stassification according to Directive 67/548/EEC or 1999/45/EC Iot classified 5:2. US State regulations Iso additional information available 5:3. US State regulations Iso additional information available 5:3. US State regulations Iso Additional information available 5:3. US State regulations Iso - New Jersey - Right to Know Hazardous Substance List EECTION 16: Other information		
Ao additional information available Vir transport Vio additional information available Vir transport Vio Additional information available Vio Additional inform		
Nir transport to additional information available SECTION 15: Regulatory information 6.1. US Federal regulations 1.2-propanedici (57-55-6) Listed on the United States TSCA (Toxic Substances Control Act) inventory 5.2. International regulations 2.2. International regulations 2.2. International regulations 2.2. International regulations 2.2. International regulations 2.2. Regulations 8.0 additional information available 2.2. State regulations 10.3. US State regulations 10.3. VIS State regulations 10.3. US State regulations 10.3. US State regulations 10.3. US State regulations 10.3. VIS State regulations 10.3. VIS State regulations 10.3. New Jersey - Right to Know Hazardous Substance List ECTION 16: Other information		
Ale additional information available  SECTION 15: Regulatory information  1.2-propanediol (57-55-6)  Listed on the United States TSCA (Toxic Substances Control Act) inventory  2.2. International regulations  CANADA  RT150S G or D Super Blu WHMIS Classification  EU-Regulations Io additional information available  Classification according to Regulation (EC) No. 1272/2008 [CLP]  Classification according to Directive 67/548/EEC or 1999/45/EC Iot classified  5.2. National regulations Io additional information available  5.3. US State regulations IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	to additional information available	
SECTION 15: Regulatory information 5.1. US Federal regulations 1.2-propanediol (57-55-6) Listed on the United States TSCA (Toxic Substances Control Act) inventory 5.2. International regulations ANADA RT150S G or D Super Blu WHMIS Classification This product does not require hazardous labeling or symbols 30-Regulations Io additional information available Classification according to Regulation (EC) No. 1272/2008 [CLP] Classification according to Directive 67/548/EEC or 1999/45/EC Iot classified 5.2. National regulations Io additional information available 5.3. US State regulations Io State regulations II State regulations III State regulations II State r	Air transport	
5.1. US Federal regulations         1.2 propanediol (57-55-6)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         5.2. International regulations         CANADA         RT150S G or D Super Blu         WHMIS Classification         This product does not require hazardous labeling or symbols         SU-Regulations         lo additional information available         Classification according to Regulation (EC) No. 1272/2008 [CLP]         Classified         S.2.2. National regulations         lo additional information available         S.2.2. National regulations         lo additional information available         S.2.1. National regulations         lo additional information available         S.2.2. National regulations         lo additional information available         5.3. US State regulations         lo additional information available         5.3. US State regulations         los New Jersey - Right to Know Hazardous Substance List         ECCIION 16: Other information	lo additional information available	
5.1. US Federal regulations         1.2-propanediol (57-55-6)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         5.2. International regulations         ANADA         RT150S G or D Super Blu         WHMIS Classification         This product does not require hazardous labeling or symbols         SU-Regulations         lo additional information available         Classification according to Regulation (EC) No. 1272/2008 [CLP]         Classified         S.2.2. National regulations         lo additional information available         S.3. US State regulations         lo additional information available         5.3. US State regulations         lo. S. New Jersey - Right to Know Hazardous Substance List	SECTION 15: Regulatory informa	tion
Listed on the United States TSCA (Toxic Substances Control Act) inventory 5.2. International regulations ANADA  RT150S G or D Super Blu WHMIS Classification This product does not require hazardous labeling or symbols U-Regulations Io additional information available S.2. National regulations S.2. National regulations S.3. US State regulations S.3. US Sta		
Listed on the United States TSCA (Toxic Substances Control Act) inventory         5.2. International regulations         SANADA         RT150S G or D Super Blu         WHMIS Classification         This product does not require hazardous labeling or symbols         U-Regulations         Io additional information available         classification according to Regulation (EC) No. 1272/2008 [CLP]         classified         5.2.2. National regulations         to additional information available         5.3. US State regulations         5.3. US State regulations         .5.3. US State regulations         .5.4. New Jersey - Right to Know Hazardous Substance List	12-propagadial (57 55 6)	
5.2. International regulations CANADA RT150S G or D Super Blu WHMIS Classification This product does not require hazardous labeling or symbols U-Regulations lo additional information available Classification according to Regulation (EC) No. 1272/2008 [CLP] Classification according to Directive 67/548/EEC or 1999/45/EC tot classified 5.2.2. National regulations lo additional information available 5.3. US State regulations S.3. US State regulations L2-propanediol (57-55-6) L3 New Jersey - Right to Know Hazardous Substance List ECTION 16: Other information		Substances Control Act inventory
RT4505 G or D Super Blu         WHMIS Classification       This product does not require hazardous labeling or symbols         EU-Regulations       Regulation available         Classification according to Regulation (EC) No. 1272/2008 [CLP]       Regulation according to Directive 67/548/EEC or 1999/45/EC         Classification according to Directive 67/548/EEC or 1999/45/EC       Regulations         Rodditional information available       Regulations         Solutional regulations       Regulations         Solutional regulation       Regulation		Additional Control Act Inventory
RT150S G or D Super Blu         WHMIS Classification         WHMIS Classification         CU-Regulations         No additional information available         Classification according to Regulation (EC) No. 1272/2008 [CLP]         Classification according to Directive 67/548/EEC or 1999/45/EC         Not classified         5.2.2. National regulations         No additional information available         5.3. US State regulations         No. 1272/2008 [CLP]         S. New Jersey - Right to Know Hazardous Substance List	5.2. International regulations	
WHMIS Classification       This product does not require hazardous labeling or symbols         EU-Regulations       No. 1272/2008 [CLP]         Classification according to Regulation (EC) No. 1272/2008 [CLP]       No. 1272/2008 [CLP]         Classification according to Directive 67/548/EEC or 1999/45/EC       No. 1272/2008 [CLP]         Classified       5.2.2. National regulations         No additional information available       S. New Jersey - Right to Know Hazardous Substance List	CANADA	
EU-Regulations No additional information available Classification according to Regulation (EC) No. 1272/2008 [CLP] Classification according to Directive 67/548/EEC or 1999/45/EC Not classified 5.2.2. National regulations No additional information available 5.3. US State regulations (2-propanediol (57-55-6) U.S New Jersey - Right to Know Hazardous Substance List EECTION 16: Other information	RT150S G or D Super Blu	
Vasible additional information available Classification according to Regulation (EC) No. 1272/2008 [CLP] Classification according to Directive 67/548/EEC or 1999/45/EC tot classified 5.2.2. National regulations to additional information available 5.3. US State regulations 5.3. US State regulations 5.3. US State regulations 5.3. US State regulations 5.3. New Jersey - Right to Know Hazardous Substance List EECTION 16: Other information	WHMIS Classification	This product does not require hazardous labeling or symbols
Vasible additional information available Classification according to Regulation (EC) No. 1272/2008 [CLP] Classification according to Directive 67/548/EEC or 1999/45/EC tot classified 5.2.2. National regulations to additional information available 5.3. US State regulations 5.3. US State regulations 5.3. US State regulations 5.3. New Jersey - Right to Know Hazardous Substance List EECTION 16: Other information		
Vasible additional information available Classification according to Regulation (EC) No. 1272/2008 [CLP] Classification according to Directive 67/548/EEC or 1999/45/EC tot classified 5.2.2. National regulations to additional information available 5.3. US State regulations 5.3. US State regulations 5.3. US State regulations 5.3. US State regulations 5.3. New Jersey - Right to Know Hazardous Substance List EECTION 16: Other information	EU-Regulations	
Classification according to Directive 67/548/EEC or 1999/45/EC lot classified 5.2.2. National regulations lo additional information available 5.3. US State regulations 5.3. US State regulations 2.2-propanediol (57-55-6) U.S New Jersey - Right to Know Hazardous Substance List ECTION 16: Other information	No additional information available	
Classification according to Directive 67/548/EEC or 1999/45/EC lot classified 5.2.2. National regulations lo additional information available 5.3. US State regulations 5.3. US State regulations 2.2-propanediol (57-55-6) U.S New Jersey - Right to Know Hazardous Substance List ECTION 16: Other information		
Classification according to Directive 67/548/EEC or 1999/45/EC lot classified 5.2.2. National regulations lo additional information available 5.3. US State regulations 5.3. US State regulations 2.2-propanediol (57-55-6) U.S New Jersey - Right to Know Hazardous Substance List ECTION 16: Other information		
Not classified 5.2.2. National regulations No additional information available 5.3. US State regulations  ,2-propanediol (57-55-6)  J.S New Jersey - Right to Know Hazardous Substance List  ECTION 16: Other information	lassification according to Regulation (E	C) No. 1272/2008 [CLP]
Not classified 5.2.2. National regulations No additional information available 5.3. US State regulations  ,2-propanediol (57-55-6)  J.S New Jersey - Right to Know Hazardous Substance List  ECTION 16: Other information		
Not classified 5.2.2. National regulations No additional information available 5.3. US State regulations  ,2-propanediol (57-55-6)  J.S New Jersey - Right to Know Hazardous Substance List  ECTION 16: Other information	Classification according to Directive 67/5	i48/EEC or 1999/45/EC
additional information available      5.3. US State regulations		
additional information available      5.3. US State regulations	5.2.2. National regulations	
,2-propanediol (57-55-6) J.S New Jersey - Right to Know Hazardous Substance List BECTION 16: Other information	lo additional information available	
,2-propanediol (57-55-6) J.S New Jersey - Right to Know Hazardous Substance List BECTION 16: Other information		
,2-propanediol (57-55-6) J.S New Jersey - Right to Know Hazardous Substance List BECTION 16: Other information	5.3 LIS State regulations	
D.S New Jersey - Right to Know Hazardous Substance List		
ECTION 16: Other information	,2-propanediol (57-55-6)	
	J.S New Jersey - Right to Know Hazardou	us Substance List
ther information : None.	ECTION 16: Other information	
	other information	: None.
	0/45/0044	

1

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

IFPA health hazard	: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
NFPA specific hazard	: None
HMIS III Rating	
Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard
SDS US (GHS HazCom 2012)	

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