

1.1. identification Product fame Product fame Product fame :: Luminotif B Blood Detection Product fame :: Laboratory chemical 1.2. Retevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture :: Laboratory chemical 1.3. Details of the substance or mixture and uses advised against 1.4. Emergency runnber :: Manual Aga 300 CHEMTREC: 1.800.424.9300 Statistication of the substance or mixture OHS US classification Sint corresion/mixtation Category 1A Sint corresion/mixtation Category 1A Parade elements: OHS US classification Sint corresion/mixtation Category 1A Parade elements: Original word (CHS-US) :: solidam cathorate scidure performant (Anter - SD µm) Hazard statements (CHS-US) : Pagor :: solidam cathorate scidure performant (Anter - SD µm) Hazard statements (CHS-US) : Pagor - Pagor : coldam spaga Pagor : Solidam cathorate scidure	SECTION 1: Identification			
Product form: MatureProduct form: Lumina (16 Blood DetectionProduct code: Lumina (16 Blood Detection 12. Relevant identified uses of the substance or mixture and uses advised againstUse of the substance/mixture: Laboratory chemical 13. Details of the supplier of the safety data sheetSIRCHIEOD Hunter PlaceYoung wills, NG 27656 - USASIRCHIE 13. Details of the substance or mixture 14. Emergency stephone numberEmergency number 21. Classification of the substance or mixture 615-US Laboration615-US Laboration615-US Laboration615-US Laboration615-US Laboration716 Emergency stephone number 72. Labol elements 72. Labol elements 72. Labol elements 73. Emergency (IH-HSI) 74. Emergency (IH-HSI) 75. Elements 75. Classification of the substance or mixture 76. Elements 77. Classification of the substance or mixture 78. Classification of the substance or mixture 79. Classification of the substance or				
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12. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture : Laboratory chemical 13. Details of the supplier of the safety data sheet SRCHE SRCHE : SRCHE 10. Mutter Place : Substance/mixture 11. Emergency telephone number : Substance/mixture Emergency telephone number : 1.800.424.9300 CSECTION 2: Hazard(2) [dentification : Substance or mixture GH5-US classification : Substance or mixture GH5-US labeling : Substance or mixture Hazard pictograms (GH5-US) : Danger Contains : sodium carbonatic sodiumperborate (NaBO3), tetrahydrate, containing < 0.1 % (ww) of particles with a nearodynamic indicately rescue to have been read and understood P20 - Do not breather dustry mergens/mixture/substance or mixture	Product name	: Luminol16 Blood Detection		
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CHEMTREC: 1.800.424.9300 SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture OHS-US classification Sith corresion/initiation Category 1A H314 Reproductive toxicity Category 1B H360 Full text of H statements : see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) :: citagor :: Contains Signal word (GHS-US) :: Solution ary statements (GHS-US) :: Page / Wash nods, for substance, containing < 0.1 % (w/w) of particles with an aerodynamic diameter < 50 µm				
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Other hazards not contributing to the : None under normal conditions.	2.3. Other hazards			
	Other hazards not contributing to the	: None under normal conditions.		

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classification

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

Substance 3.1.

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
sodium carbonate	(CAS No) 497-19-8	<= 86	Skin Corr. 1A, H314 Eye Irrit. 2A, H319
sodiumperborate (NaBO3), tetrahydrate, containing < 0.1 % (w/w) of particles with an aerodynamic diameter < 50 μm	(CAS No) 10486-00-7	<= 12	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Repr. 1B, H360 STOT SE 3, H335
sodium 5-amino-2,3-dihydro-1,4-phthalazinedione	(CAS No) 20666-12-0	< 2	Not classified

Full text of H-phrases: see section 16

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	 Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). 	
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest.	
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.	
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.	
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.	
4.2. Most important symptoms and effe	ects, both acute and delayed	
Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.	
4.3. Indication of any immediate medicate	al attention and special treatment needed	
No additional information available		
SECTION 5: Firefighting measures		
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 the su	ubstance or mixture	
Reactivity	: No data available.	
5.3. Advice for firefighters		
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.	
SECTION 6: Accidental release measures		
6.1. Personal precautions, protective e	quipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
6.1.2. For emergency responders Protective equipment	: Equip cleanup crew with proper protection.	
Emergency procedures	: Ventilate area.	
6.2. Environmental precautions		
	fy authorities if liquid enters sewers or public waters	
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. 6.3. Methods and material for containment and cleaning up		
6.3. Methods and material for containm Methods for cleaning up	: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away	
methods for cleaning up	from other materials.	
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See Heading 8. Exposure controls and personal protection. SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: 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 vapor.	
7.2. Conditions for safe storage	, including any incompatibilities	
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.	
Incompatible products	: Strong bases. Strong acids.	
Incompatible materials	: Sources of ignition. Direct sunlight.	
SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		

sodium 5-amino-2,3-dihydro-1,4-phthalazinedione (20666-12-0)		
Not applicable		
sodium carbonate (497-19-8)		
Not applicable		
sodiumperborate (NaBO3), tetrahydrate, containing < 0.1 % (w/w) of particles with an aerodynamic diameter < 50 μm (10486-00-7)		
ACGIH	ACGIH TWA (mg/m³)	2 mg/m ³ (Borate compounds, inorganic; USA; Time- weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction)
ACGIH	ACGIH STEL (mg/m ³)	6 mg/m ³ (Borate compounds, inorganic; USA; Short time value; TLV - Adopted Value; Inhalable fraction)

8.2.	Exposure controls	
Persor	al protective equipment	: Gas mask. Gloves. Safety glasses. Avoid all unnecessary exposure.

Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

Physical state : Solid Appearance : Powders. Color : white Colorless Odor : odorless characteristic Odor threshold : No data available
Color : white Colorless Odor : odorless characteristic
Odor : odorless characteristic
Odor threshold : No data available
pH : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : No data available
Explosion limits : No data available

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Explosive properties	: No data available		
Oxidizing properties	: No data available		
Vapor pressure	: No data available		
Relative density	: No data available		
Relative vapor density at 20 °C	: No data available		
Solubility	 Soluble in water. Water: Solubility in water of component(s) of the mixture : sodium carbonate: 22 g/100ml 		
Log Pow	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Viscosity	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
9.2. Other information			
No additional information available	No additional information available		

SECTION 10: Stability and reactivity			
10.1.	Reactivity		
No data	a available.		
10.2.	Chemical stability		
Stable	Stable under normal conditions. Not established.		
10.3.	Possibility of hazardous reactions		
Not established.			
10.4.	Conditions to avoid		
Direct sunlight. Extremely high or low temperatures.			
10.5.	Incompatible materials		
May react with aluminium. Strong acids. Strong bases. Oxidizing agent.			
10.6.	Hazardous decomposition products		

Carbon dioxide. Carbon monoxide. Under normal conditions of storage and use, hazardous decomposition products should not be produced. fume.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Not classified

sodium carbonate (497-19-8)		
LD50 oral rat	2800 mg/kg (Rat; Experimental value)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Experimental value)	
ATE US (oral)	2800.000 mg/kg body weight	
sodiumperborate (NaBO3), tetrahydrate, con	taining < 0.1 % (w/w) of particles with an aerodynamic diameter < 50 μm (10486-00-7)	
LD50 oral rat	1200 mg/kg (Rat)	
ATE US (oral)	1200.000 mg/kg body weight	
Skin corrosion/irritation	: Causes severe skin burns and eye damage.	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
	Based on available data, the classification criteria are not met	
Carcinogenicity	: Not classified	
Reproductive toxicity	: systemic toxicity (Dermal, Inhalation, oral).	
	Based on available data, the classification criteria are not met	
Specific target organ toxicity (single exposure)	: Not classified	

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Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.	
SECTION 12: Ecological information		
12.1. Toxicity		

sodium carbonate (497-19-8)			
LC50 fish 1	300 mg/l (LC50; Other; 96 h; Lepomis macrochirus; Static system; Fresh water; Experimenta value)		
Threshold limit algae 1	242 mg/l (EC50; 5 days; Algae)		
sodiumperborate (NaBO3), tetrahydrate,	containing < 0.1 % (w/w) of particles with an aerodynamic diameter < 50 μm (10486-00-7)		
LC50 fish 1	51 mg/l (LC50; 96 h)		
EC50 Daphnia 1	11 mg/l (EC50; 48 h)		
2.2. Persistence and degradability			
Luminol16 Blood Detection			
Persistence and degradability	Not established.		
sodium 5-amino-2,3-dihydro-1,4-phthala	zinedione (20666-12-0)		
Persistence and degradability	Biodegradability in water: no data available.		
sodium carbonate (497-19-8)			
Persistence and degradability	Biodegradability: not applicable. Low potential for adsorption in soil.		
ThOD	Not applicable (inorganic)		
	containing < 0.1 % (w/w) of particles with an aerodynamic diameter < 50 μm (10486-00-7)		
Persistence and degradability	Biodegradability: not applicable. Hydrolysis in water.		
Biochemical oxygen demand (BOD)	Not applicable		
Chemical oxygen demand (COD)	Not applicable		
ThOD	Not applicable		
2.3. Bioaccumulative potential			
Luminol16 Blood Detection			
Bioaccumulative potential	Not established.		
sodium 5-amino-2,3-dihydro-1,4-phthala	zinedione (20666-12-0)		
Bioaccumulative potential	No bioaccumulation data available.		
sodium carbonate (497-19-8)			
Log Pow	-6.19 (Estimated value)		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).		
sodiumperborate (NaBO3), tetrahydrate,	containing < 0.1 % (w/w) of particles with an aerodynamic diameter < 50 μ m (10486-00-7)		
Bioaccumulative potential No bioaccumulation data available.			

No additional information available

 12.5. Other adverse effects

 Effect on the global warming
 : No known ecological damage caused by this product.

 Other information
 : Avoid release to the environment.

 SECTION 13: Disposal considerations

 13.1. Waste treatment methods

 Waste disposal recommendations
 : Dispose in a safe manner in accordance with local/national regulations.

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Ecology - waste materials

: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT) In accordance with DOT

Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

No additional information available

15.2. International regulations

CANADA No additional information available

EU-Regulations No additional information available

National regulations

No additional information available

15.3. US State regulations

No additional information available

SECT	TION 16: Other information				
Data s	sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.		2008 on classification, labeling and packaging of substances and bealing Directives 67/548/EEC and 1999/45/EC, and amending		
Training advice		:	: Normal use of this product shall imply use in accordance with the instructions on the packaging.		
Other i	nformation	:	None.		
Full tex	t of H-phrases:				
	H302			Harmful if swallowed	
	H314		C	Causes severe skin burns and eye damage	
	H318		C	Causes serious eye damage	
	H319		C	Causes serious eye irritation	
	H335		N	May cause respiratory irritation	
	H360		N	May damage fertility or the unborn child	
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		:	1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.		

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HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.
Personal Protection	: F
	F - Safety glasses, Gloves, Synthetic apron, Dust respirator

SDS US (GHS HazCom 2012)

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.