

Material Safety Data Sheet (MSDS) Revision Date: 9-27-2023

# Kit Name: VitroView<sup>TM</sup> Anti-Mouse FL488 Staining Kit Catalog#: VB-6100

**Components:** 

RTU Normal Goat Serum
FL488 Conjugated Goat anti Mouse IgG (1mg/ml)
Aqueous Anti-fade Mounting Medium with DAPI

# **RTU normal goat serum MSDS**

	1. Identification of the Substance/Mixture and Company
Product Name	RTU normal goat serum
Catalog#	
Product Description	Component
Manufacturer/Supplier	VitroVivo Biotech, LLC. 405 E Gude Dr., Suite 214, Rockville, MD 20850
Tel/fax Number	Phone: 301-500-0499; Toll free: 1-800-260-9817 Fax: 844-248-6208
	2. Hazards Identification
<b>GHS</b> Classification	
Signal Word	None
Hazard pictograms	None
Health hazards	Not Hazardous
Environmental hazards	Not Hazardous
Hazard Statements	Not Applicable
Precautionary Statements	
Prevention	Not Applicable
Response	Not Applicable
Storage	Not Applicable
Disposal	Not Applicable
Other hazards	Not Applicable

# 3. Composition/information on ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

4. First Aid Measures		
Description of first aid	<u>measures</u>	
Skin contact	Rinse skin with water. Immediate medical attention is not required.	
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
Ingestion	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.	
Inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.	
Notes to Physician	Treat symptomatically.	

Most important symptoms and effects, both acute and delayed Not Applicable

**Indication of any immediate medical attention and special treatment needed** None.

# 5. Firefighting Measures

# Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media Water spray. Carbon dioxide (CO2). Foam. Dry chemical. No information available.

Special hazards arising from the substance or mixture Not known

**Protective equipment and precautions for firefighters** Standard procedure for chemical fires.

## 6. Accidental Release Measures

## Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation Always wear recommended Personal Protective Equipment Use personal protection equipment See section 8 for more information

### **Environmental precautions**

No special environmental precautions required.

### Methods and material for containment and cleaning up

Soak up with inert absorbent material.

### **Reference to other sections**

See section 8 for more information.

### 7. Handling and Storage

### Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

### Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

# Specific end use(s)

For Laboratory Use

8. Exposure Controls/Personal Protection	
<u>Control parameters</u> Exposure Limits Engineering Measures	Contains no substances with occupational exposure limit values. Ensure adequate ventilation, especially in confined areas.
Exposure controls	
Personal Protective Equipment	
Respiratory protection	In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.
Hand protection	Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.
Eye protection	Tight sealing safety goggles.
Skin and Body Protection	Wear suitable protective clothing.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice

### **Environmental exposure controls**

No special environmental precautions require

# 9. Physical and Chemical Properties

- **Physical State** Appearance Odor **Odor Threshold** pН Melting Point/Range **Boiling Point/Range Flash Point Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits
- Liquid Colorless Odorless No information available 6-8 No data available No information available No information available No information available Not applicable

Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

### **10 Stability and Reactivity**

None known.
Stable under normal conditions.
Hazardous reaction has not been reported.
No information available.
No dangerous reaction known under conditions of normal use.
No data available

### 11. Toxicological Information

# Information on toxicological effects

There is no evidence available indicating acute toxicity.

Principal Routes of Exposure	
Acute toxicity	Data are conclusive but insufficient for classification.
Skin corrosion/irritation	Data are conclusive but insufficient for classification
Serious eye damage/irritation	Data are conclusive but insufficient for classification
Respiratory or skin sensitization	Data are conclusive but insufficient for classification

Specific target organ toxicity (STOT)-single exposure Data are conclusive but insufficient for classification

Specific target organ toxicity (STOT)-repeated exposure Data are conclusive but insufficient for classification

Carcinogenicity	Data are conclusive but insufficient for classification
Germ cell mutagenicity	Data are conclusive but insufficient for classification
Reproductive toxicity	Data are conclusive but insufficient for classification
Aspiration hazard	Data are conclusive but insufficient for classification

### **12. Ecological Information**

### Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Mobility in soil	No information available.
Persistence and degradability	No information available.
<b>Bioaccumulative potential</b>	No information available.

### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

# Other adverse effects

No information available

### 13. Disposal Considerations

<u>Waste treatment methods</u> The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations

### 14. Transport Information

### IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

UN number	Not Applicable
UN proper shipping name	Not Applicable
Transport hazard class(es)	Not Applicable
Packing group	Not Applicable
Environmental hazards	Not Applicable
Special precautions for user	Not Applicable

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not Applicable.

15. Regulatory Information

# **US Federal Regulations**

SARA 313 This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

## **US State Regulations**

California Proposition 65 This product does not contain any Proposition 65 chemicals.

# WHMIS Hazard Class

# Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

### **National Regulations - Brazil**

Not regulated

### 16. Other Information

This information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of the material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

Abbreviations and acronyms: **ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) **IMDG:** International Maritime Code for Dangerous Goods **DOT:** US Department of Transportation **IATA:** International Air Transport Association **ACGIH:** American Conference of Governmental Industrial Hygienists **NFPA:** National Fire Protection Association (USA) **HMIS:** Hazardous Materials Identification System (USA) **LC50:** Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

# FL488 Conjugated Goat anti Mouse IgG (1mg/ml) MSDS

1. Identification of the Substance/Mixture and Company	
Product Name Catalog#	FL488 Conjugated Goat anti Mouse IgG (1mg/ml)
Product Description	Component
Manufacturer/Supplier	VitroVivo Biotech, LLC. 405 E Gude Dr., Suite 214, Rockville, MD 20850
Tel/fax Number	Phone: 301-500-0499; Toll free: 1-800-260-9817 Fax: 844-248-6208

# 2. Hazards Identification

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

	3. Composition/information on ingredients
Mixtures Description: Mixture of the s	substances listed below.
Composition:	
Component	CAS#
FL488	1374019-99-4
Goat anti Mouse	
	4. First Aid Measures
Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.	

### FIRST AID: CALL A PHYSICIAN.

SKIN: Remove contaminated clothing. Wash exposed area with soap and water.

**EYES**: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. **INHALATION**: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

### 5. Firefighting Measures

Fire Extinguisher Type:	Carbon Dioxide, dry chemical powder or appropriate foam
Fire / Explosion Hazards:	vapors heavier than air and wil stay at the floor leve
Fire Fighting Procedure:	Wear self-contained breathing apparatus and protective clothing to
	prevent contact with skin and clothing.

### 6. Accidental Release Measures

Evacuate area. Wear self-contained breathing apparatus and protective clothing. Eliminate all sources of ignition.

### 7. Handling and Storage

Store in a cool dry well ventilated area. Keep away from heat and flame. Do not get in eyes, on skin, or on clothing.

# 8. Exposure Controls/Personal Protection

<b>Respiratory Protection:</b>	NIOSH/MSHA-approved respirator
Ventilation:	Mechanical
Protective Gloves:	Solvent resistant gloves as neoprene or nitrile
Eye Protection:	Splash Goggles
<b>Other Protective Equipment:</b>	Wear appropriate clothing to prevent skin exposure

General Information         Appearance         Form:       Fluid         Color:       Colorless         Odor:       characteristic organic odor         Odor threshold       Not determined         pH-value       Not determined         Change in condition       Hetting point/Melting range:         Melting point/Boiling range:       Undetermined         Boiling point/Boiling range:       Undetermined         Flash point:       Not applicable.         Flash point:       Not applicable.         Ignition temperature:       Decomposition temperature:         Decomposition temperature:       Not determined.         Auto igniting:       Product is not self-igniting.         Danger of explosion:       Not determined.         Lower       Not determined         Upper       Not determined.         Vapor pressure at 20°C (68 °F):       Not determined.         Relative density:       Not determined.         Vapor rate:       Not determined.         Solubility in / Miscibility with Water:       Infinite.         Segregation coefficient (n-octonol/water)       Not determined         Solubility in / Miscibility with Water:       Infinite.         Segregation coefficient (n-octonol/water)	9. Physical and Chemical Properties	
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	Dynamic:	Not determined
<b>Other information</b> No further relevant information available.	Kinematic:	Not determined
	Other information	No further relevant information available.

10 Stability	and Reactivity
Stability:	Stable
Conditions to Avoid	Avoid contact with heat, sparks, flames, or
	other sources of ignition.
Materials to Avoid:	Oxidizing materials
Hazardous Decomposition Products:	TOXIC gases produced at decompostion
Hazardous polymerization:	Will Not Occur
Conditions to Avoid:	None known

## 11. Toxicological Information

Oral, Rat: (Chloroform) 695 mg/kg, behavioral and respiratory effects noted; LD50, Dermal, Rabbit: >20,000 mg/kg, details of toxic effects not reported other than lethal dose value . Investigated as a tumorigen (Chloroform). LD50, Oral, Rat (Acetic Acid): 3310 mg/kg; LD50, Dermal, Rabbit (Acetic Acid): 1.06 L/kg, details of toxic effects not reported other than lethal dose value.

### 12. Ecological Information

Ethanol has moderate chronic toxicity to aquatic life. Chloroform has moderate acute and chronic toxicity to aquatic life. Chloroform has caused damage to various plants, including brittle roots and chromosomal damage. Insufficient data are available to evaluate the short term and long term effects of Chloroform to plants, birds, or land animals. Acetic Acid has high biochemical oxygen demand, and a potential to cause oxygen depletion in aqueous systems, low potential to affect aquatic organisms and a low potential to affect the growth of some plant seedlings . Chemical Fate Information: This material is not expected to significantly bioaccumulate. Ethanol is slightly persistent in water, with a

half-life of between 2 to 20 days. Chloroform is non-persistent in the aquatic environment. Acetic Acid has low potential to bioconcentrate.

# 13. Disposal Considerations

Absorb with suitable inert material (vermiculite, dry sand, earth) and place in a chemical waste container for proper disposal in an approved waste disposal facility for incineration in a chemical incinerator equipped with scrubber and afterburner. Do not flush to the sewer. Ventilate area of spill. Have extinguishing agent available in case of fire. Eliminate all sources of ignition. Use non-sparking tools and equipment. Always dispose of in accordance with local, state and federal regulations.

### 14. Transport Information

Part Numbers: R1851000-1C, R1851000-4C, R1851000-500C D.O.T. Hazard Class: 3 (6.1) U.N. / N.A. Number: UN1992 Packing Group: III D.O.T. Shipping Name: Flammable Liquid, Toxic, n.o.s., (Ethanol and Chloroform) D.O.T. Label: 3, III

### 15. Regulatory Information

**OSHA Status:** These items meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

**TSCA Status:** All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

Section 302 Extremely Hazardous Substances: Not Applicable.

Section 311/312 Hazardous Catagories: Acute, Chronic, Fire: Yes; Pressure, Reactivity: No Section 313 Toxic Chemicals:Not Applicable.

**California:** Contains an ingredient (Chloroform (Trichloromethane)) known to the state of California to cause cancer. Contains an ingredient (Chloroform (Trichloromethane)) known to the state of California to cause cancer. **Pennsylvania:** Chloroform (Trichloromethane) is listed as both Special and Environmental Hazards on the state's Hazardous Substances List. Ethyl Alcohol (Ethanol) is listed as a Basic Hazard on the state's Hazardous Substances List. Acetic Acid is listed as an Environmental Hazard on the state 's Hazardous Substances List. Chloroform (Trichloromethane) is listed as both Special and Environmental Hazards on the state's Hazardous Substances List.

CERCLA Reportable Quantity: Chloroform (Trichloromethane) - 10 pounds. Acetic Acid - 5,000 pounds. Acetic

**D022,U044,U154,D002,U154,D002,D022,U044 WHMIS**: B-2: Flammable and Combustible Material. Flammable Liquid. D-2A: Poisonous and Infectious Material.

**Materials causing other toxic effects** - Very Toxic Material. D-1B Poisonous and Infectious Material. Materials causing immediate and serious toxic effects - Toxic Material.

### **16. Other Information**

This information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of the material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

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# Aqueous Anti-fade Mounting Medium with DAPI

	1. Identification of the Substance/Mixture and Company
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Product Name Catalog#	Aqueous Anti-fade Mounting Medium with DAPI
Product Description	Component
Manufacturer/Supplier	VitroVivo Biotech, LLC. 405 E Gude Dr., Suite 214, Rockville, MD 20850
Tel/fax Number	Phone: 301-500-0499; Toll free: 1-800-260-9817 Fax: 844-248-6208
	2. Hazards Identification
Classification of the substa	nce or mixture
Classification Physical hazards Health hazards Environmental hazards	Not Classified Not Classified Not Classified
Label elements	
EC number Hazard statements Precautionary statements	249-186-7 NC Not Classified EUH210 Safety data sheet available on request.
Other hazards	
No information available.	
	3. Composition/information on ingredients
	ture of the substances listed below.
Composition:	
Component DAPI	CAS# 28718-90-3
Component	28718-90-3
Component	
Component	28718-90-3 4. First Aid Measures
<b>Component</b> DAPI	28718-90-3  4. First Aid Measures  asures  Move affected person to fresh air at once. Keep affected person warm and at
Component DAPI Description of first aid mea Inhalation	28718-90-3      4. First Aid Measures  asures  Move affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately.
Component DAPI Description of first aid mea	28718-90-3      4. First Aid Measures  asures  Move affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately. Not relevant. Rinse immediately with plenty of water. Remove contaminated clothing. Get
Component DAPI Description of first aid mea Inhalation Ingestion	28718-90-3      4. First Aid Measures  asures  Move affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately. Not relevant.
Component DAPI Description of first aid mea Inhalation Ingestion Skin contact Eye contact	28718-90-3 <b>4. First Aid Measures</b> asures         Move affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately. Not relevant.         Not relevant.       Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention promptly if symptoms occur after washing. Rinse immediately with plenty of water. Continue to rinse for at least 15
Component DAPI Description of first aid mea Inhalation Ingestion Skin contact Eye contact <u>Most important symptoms</u> Inhalation	28718-90-3 <b>4. First Aid Measures</b> asures         Move affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately. Not relevant.         Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention promptly if symptoms occur after washing.         Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.         and effects, both acute and delaved         May cause cause coughing or mild irritation.
Component DAPI Description of first aid mea Inhalation Ingestion Skin contact Eye contact Most important symptoms Inhalation Ingestion	28718-90-3 <b>4. First Aid Measures asures aswee affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately.</b> Not relevant.         Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention promptly if symptoms occur after washing.         Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing. <b>and effects, both acute and delaved</b> May cause cause coughing or mild irritation.         May cause discomfort if swallowed.
Component DAPI Description of first aid mea Inhalation Ingestion Skin contact Eye contact <u>Most important symptoms</u> Inhalation	28718-90-3 <b>4. First Aid Measures</b> asures         Move affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately. Not relevant.         Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention promptly if symptoms occur after washing.         Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.         and effects, both acute and delaved         May cause cause coughing or mild irritation.
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Component DAPI Description of first aid mea Inhalation Ingestion Skin contact Eye contact Most important symptoms Inhalation Ingestion Skin contact Eye contact Eye contact	28718-90-3 <b>4. First Aid Measures asures aswee affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately.</b> Not relevant.         Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention promptly if symptoms occur after washing.         Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing. <b>and effects, both acute and delaved</b> May cause cause coughing or mild irritation.         May cause discomfort if swallowed.         Prolonged skin contact may cause redness and irritation.         May cause temporary eye irritation.

Extinguishing media		
Suitable extinguishing media	Water spray, foam, dry powder or carbon dioxide.	
Special hazards arising from the sub	ostance or mixture	
Specific hazards	Vapours/gases/fumes of: Hydrogen chloride (HCl). Oxides of the following substances: Carbon. Nitrogen.	
Advice for firefighters		
Special protective equipment for fire	efighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.	
	6. Accidental Release Measures	
Personal precautions, protective equ	ipment and emergency procedures	
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust. Avoid contact with skin and eyes.	
Environmental precautions		
Environmental precautions	Avoid the spillage or runoff entering drains, sewers or watercourses.	
Methods and material for containme	Methods and material for containment and cleaning up	
Methods for cleaning up	Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor.	
Reference to other sections		
Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet.	
	7. Handling and Storage	
Precautions for safe handling		
Usage precautions	Do not handle broken packages without protective equipment.	
Conditions for safe storage, includin	g any incompatibilities	
Storage precautions	Keep only in the original container. Store at specified temperature. Refer to	
Storage class	product label. Refer to product datasheet.	
	product label.	
Storage class	product label.	
Storage class <u>Specific end use(s)</u> Specific end use(s)	product label. Refer to product datasheet.	
Storage class <u>Specific end use(s)</u> Specific end use(s)	product label. Refer to product datasheet. The identified uses for this product are detailed in Section 1.2.	
Storage class <u>Specific end use(s)</u> Specific end use(s)	product label. Refer to product datasheet. The identified uses for this product are detailed in Section 1.2.	
Storage class <u>Specific end use(s)</u> Specific end use(s) <u>Control parameters</u>	product label. Refer to product datasheet. The identified uses for this product are detailed in Section 1.2.	

Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact.
Hygiene measures	Provide eyewash station. Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. Wash promptly with soap and water if skin becomes contaminated.
Respiratory protection	No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

# 9. Physical and Chemical Properties

# Information on basic physical and chemical properties

	T · · · 1
Appearance	Liquid.
Colour	Yellow.
Odour	No characteristic odour.
Odour threshold	No information available.
рН	pH (concentrated solution): 4.0 - 5.0 @ 10g/l
Melting point	Not determined.
Initial boiling point and range	<100@ °C @ 760 mm Hg
Flash point	No information available.
Evaporation rate	Not applicable.
Upper/lower flammability or explosi	ve limits Not determined.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	Not determined.
Solubility(ies)	Soluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	Not determined.
Explosive properties	No unusual fire or explosion hazards noted.
Oxidising properties	Not determined.

Other information Other information None.

10 Stability and Reactivity	
<u>Reactivity</u>	
Reactivity	There are no known reactivity hazards associated with this product.
Chemical stability	
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	
Possibility of hazardous reactions	Not determined.
Conditions to avoid	
Conditions to avoid	Avoid exposure to high temperatures or direct sunlight.
<b>Incompatible materials Materials to avoid</b> Strong oxidising agents.	

# Hazardous decomposition products

Hazardous decomposition products Not known.

# 11. Toxicological Information

### Information on toxicological effects

	-
Toxicological effects	No information available.
Skin corrosion/irritation	
Extreme pH	
Serious eye damage/irritation	Not determined.
Germ cell mutagenicity	
Genotoxicity - in vitro	Not determined.
Genotoxicity - in vivo	Not determined.
Carcinogenicity	Not determined.
<b>Reproductive toxicity - fertility</b>	Not determined.
Specific target organ toxicity - sing	le exposure
STOT - single exposure	Not determined.
Specific target organ toxicity - repe	eated exposure
STOT - repeated exposure	Not determined.
Aspiration hazard	Not determined.
General information	No specific health hazards known.
Inhalation	Gas or vapour in high concentrations may irritate the respiratory system.
	Symptoms following overexposure may include the following: Coughing.
Ingestion	May cause discomfort if swallowed.
Skin contact	Liquid may irritate skin.
Eye contact	Vapour or spray in the eyes may cause irritation and smarting.
Acute and chronic health hazards	Because of the product's quantity and composition, the health hazard is
Teute und em onte neuron nuzur us	regarded as low.
Route of entry	Skin and/or eye contact
Medical symptoms	No specific symptoms noted.
in carear of inproving	
	12. Ecological Information
<b>Toxicity</b>	
Acute toxicity - fish	Not determined.
Persistence and degradability	
Persistence and degradability	There are no data on the degradability of this product.
<b>Bioaccumulative potential</b>	
Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient	Not determined.
<u>Mobility in soil</u>	
-	
Mobility	The product is soluble in water.
-	-
Results of PBT and vPvB assessme	<u>nt</u>

Results of PBT and vPvB assessment No information available

### Other adverse effects

Other adverse effects

Not determined.

13. Disposal Considerations

Waste treatment methods **General information** When handling waste, the safety precautions applying to handling of the product should be considered. **Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. **14. Transport Information** General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). Not classified. **Road transport notes** Rail transport notes Not classified. Not classified. Sea transport notes Not classified. Air transport notes Not applicable. UN number Not applicable. UN proper shipping name Transport hazard class(es) Not applicable. Packing group Not applicable. **Environmental hazards** Environmentally hazardous substance/marine pollutant No. Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable. 15. Regulatory Information Safety, health and environmental regulations/legislation specific for the substance or mixture EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Guidance Workplace Exposure Limits EH40. Approved Classification and Labelling Guide (Sixth edition) L131. Safety Data Sheets for Substances and Preparations.

No chemical safety assessment has been carried out.

### 16. Other Information

This information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of the material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

Abbreviations and acronyms:

**Chemical safety assessment** 

**ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

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