

TIMn

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 05/11/2020 Version: 1.0

SECT	ION 1: Identification	
1.1.	Identification	
Product	form	: Mixture
Product	name	: TIMn
Product	code	: 0.TIMn.0
1.2.	Recommended use and	d restrictions on use
Use of t	he substance/mixture	: Fertilisers Fertilizer
1.3.	Supplier	
Timac Agro USA, INC.		
Route 724 & I-176		
P.O. Box 888		
Reading	Reading, PA 19607 - USA	

T 1-800-545-5474

1.4. Emergency telephone number

Country	Organization/Company	Address	Emergency number	Comment
Americas	3E		+1-760-476-3962 (Access code : 333021)	(24/7)

SECTION 2: Hazard(s) identification

2.1.	Classification of the substance or mixture

GHS US classification

H290	May be corrosive to metals
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H373	May cause damage to organs (brain) through prolonged or repeated exposure (Inhalation)
	H302 H315 H318

Full text of H statements : see section 16

2.2. GHS Label elements, including	precautionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US)	: Danger
Hazard statements (GHS US)	 H290 - May be corrosive to metals H302 - Harmful if swallowed H315 - Causes skin irritation H318 - Causes serious eye damage H373 - May cause damage to organs (brain) through prolonged or repeated exposure (Inhalation)
Precautionary statements (GHS US)	 P260 - Do not breathe spray, vapors. P280 - Wear protective clothing, eye protection, face protection, protective gloves. P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a doctor, a POISON CENTER.

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P390 - Absorb spillage to prevent material-damage.

P405 - Store locked up.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

- Not applicable
- 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Uronium hydrogen sulphate	(CAS-No.) 21351-39-3	>25	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
manganese sulphate	(CAS-No.) 7785-87-7	>10-< 25	Eye Dam. 1, H318 STOT RE 2, H373

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures			
4.1. Description of first aid measures			
First-aid measures general	: Prompt treatment is essential to minimize damage. IF exposed or concerned: Get medical advice/attention.		
First-aid measures after inhalation	: Call a poison center/doctor/physician if you feel unwell. Move the affected person away from the contaminated area and into the fresh air. Remove person to fresh air and keep comfortable for breathing.		
First-aid measures after skin contact	: For even minor contact, immediately remove contaminated clothing. Wash skin thoroughly with mild soap and water. Do not remove clothing if it sticks to the skin. Get immediate medical advice/attention. Wash contaminated clothing before reuse.		
First-aid measures after eye contact	: Wash immediately with plenty water (during 20 minutes), also under eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist immediately, even if there are no immediate symptoms. If possible show him this sheet. Failing this, show him the packaging or label.		
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Unconscious: maintain adequate airway and respiration. Place the affected person in the recovery position. Immediately call a poison center or doctor/physician.		
4.2. Most important symptoms and effects (acute and delayed)			
Symptoms/effects	: (see section(s) : 2.1/2.3).		
4.3. Immediate medical attention and special treatment, if necessary			

Treat symptomatically.

SECTION 5: Fire-fighting measures			
5.1.	Suitable (and unsuitable) extinguishing media		
Suitable	extinguishing media	: Water spray.	
Unsuitat	le extinguishing media	: Do not use a heavy water stream.	
5.2.	Specific hazards arising from the che	mical	
Fire hazard :		: Not flammable.	
Explosion hazard :		: Gives off hydrogen by reaction with metals.	
5.3.	Special protective equipment and pre	cautions for fire-fighters	
Firefighting instructions :		: Control the vapors with a water spray. Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment. Contain the extinguishing fluids by bunding.	
Protection during firefighting :		: Do not enter fire area without proper protective equipment, including respiratory protection. Complete protective clothing. EN 469. Self-contained breathing apparatus.	
Other information :		: Only qualified personnel equipped with suitable protective equipment may intervene. Relevant water authorities should be notified of any large spillage to water course or drain.	

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SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
General measures	: Absorb spillage to prevent material-damage. Remove ignition sources. Evacuate area.		
6.1.1. For non-emergency personnel			
Protective equipment	: Wear recommended personal protective equipment.		
Emergency procedures	: Evacuate and limit access. Mark the danger area. Do not touch or walk on the spilled product. Avoid contact with skin, eyes and clothing. Only qualified personnel equipped with suitable protective equipment may intervene.		
6.1.2. For emergency responders			
Protective equipment	Do not attempt to take action without suitable protective equipment. acid-resistant protective clothing. For further information refer to section 8: "Exposure controls/personal protection".		
Emergency procedures	: Ventilate area. Stop leak if safe to do so. Dike and contain spill.		
6.2. Environmental precautions			
Prevent liquid from entering sewers, watercour	ses, underground or low areas. Notify authorities if product enters sewers or public waters.		
6.3. Methods and material for containn	nent and cleaning up		
For containment	 Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. 		
Methods for cleaning up	Pump up the product into a suitably labeled spare container. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.		
Other information	: Dispose of materials or solid residues at an authorized site.		
6.4. Reference to other sections			
For further information refer to section 8: "Expo	sure controls/personal protection". For further information refer to section 13.		
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Additional hazards when processed	: May be corrosive to metals.		
Precautions for safe handling	Provide good ventilation in process area to prevent formation of vapor. Do not breathe vapors. Use personal protective equipment as required. Avoid contact with skin, eyes and clothing. Do not handle until all safety precautions have been read and understood. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.		
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Separate working clothes from town clothes. Launder separately. Handle in accordance with good industrial hygiene and safety practice.		
7.2. Conditions for safe storage, include	ling any incompatibilities		
Technical measures	: The floor of the depot should be impermeable and designed to form a water-tight basin. Store on an acid resistant underground. Comply with applicable regulations.		
Storage conditions	Protect from sunlight. Store in a well-ventilated place. Store closed containers with closure in upper position. Store locked up. Keep out of reach of children.		
Incompatible products	: Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.		
Storage temperature	: 4 - 30 °C Store at ambient temperature. Protect from freezing.		
Heat-ignition	: Keep away from open flames, hot surfaces and sources of ignition.		
Information on mixed storage	: Keep away from food, drink and animal feeding stuffs.		
Special rules on packaging	: Keep only in original container. Store in a closed container.		
Packaging materials	Packaging materials : Do not store in corrodable metal.		

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Uronium hydrogen sulphate (21351-39-3)		
Not applicable		
manganese sulphate (7785-87-7)		
ACGIH	Local name	Manganese, elemental and inorganic compounds, as Mn

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manganese sulphate (7785-87-7)		
ACGIH	ACGIH TWA (mg/m ³)	0.02 mg/m ³ (R - Respirable particulate matter) 0.1 mg/m ³ (I - Inhalable particulate matter)
ACGIH	Remark (ACGIH)	TLV® Basis: CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH	Regulatory reference	ACGIH 2020

8.2. Appropriate engineering controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Local exhaust and general ventilation must be adequate to meet exposure standards.
Environmental exposure controls	Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Assure that emissions are compliant with all applicable air pollution control regulations. Comply with applicable regulations.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Since the product consists of several substances, the durability of the glove material cannot be estimated and needs to be tested before use

Туре	Material	Permeation	Thickness (mm)	Permeation
Reusable gloves	butyl rubber, Neoprene rubber (HNBR)	6 (> 480 minutes)		

Eye protection:

Safety glasses with side guards should be worn to prevent injury from airborne particles and/or other eye contact with this product

Туре	Use	Characteristics
Safety glasses, Face shield	Droplet	With side shields

Skin and body protection:

Skin protection appropriate to the conditions of use should be provided

Туре	
Chemical resistant apron	
Boots	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition
Reusable half mask, Full face mask	ABEK-P3	Vapour protection, Mist formation

Personal protective equipment symbol(s):



Other information:

See Heading 7 : 7.1. Precautions for safe handling.

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
Physical state	: Liquid		
Color	: Mixture contains one or more component(s) which have the following colour(s): Yellow Light pink		
Odor	: Odorless		
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	Odor threshold	:	No data available
	рН	:	1
	Melting point	:	No data available
	Freezing point	:	No data available
	Boiling point	:	212 °F
	Flash point	:	No data available
	Relative evaporation rate (butyl acetate=1)	:	No data available
	Flammability (solid, gas)	:	No data available
	Vapor pressure	:	No data available
	Relative vapor density at 20 °C	:	No data available
	Relative density	:	No data available
	Specific gravity / density	:	11.9 lb/gal
	Solubility	:	Soluble.
	Log Pow	:	No data available
	Auto-ignition temperature	:	No data available
	Decomposition temperature	:	No data available
	Viscosity, kinematic	:	No data available
	Viscosity, dynamic	:	No data available
	Explosion limits	:	No data available
	Explosive properties	:	No data available
	Oxidizing properties	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity			
10.1. Reactivity			
The product is non-reactive under normal conditions of use, storage and transport.			
10.2. Chemical stability			
Stable under use and storage conditions as recommended in section 7.			
10.3. Possibility of hazardous reactions			
Contact with metals produces hydrogen gas which may form explosive mixtures with air.			
10.4. Conditions to avoid			
None under recommended storage and handling conditions (see section 7).			
10.5. Incompatible materials			
Alkalis. Bases. Oxidizing agent. Reducing agents. Metals.			
10.6. Hazardous decomposition products			
Under normal conditions of storage and use, hazardous decomposition products should not be produced. In case of fire: See Heading 5.			
SECTION 11: Toxicological information			
11.1. Information on toxicological effects			

Acute toxicity (oral)	: Harmful if swallowed.		
Acute toxicity (dermal)	Not classified (Based on available data, the classification criteria are not met)		
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)		
Additional information	: No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation		
ATE US (oral)	649.35 mg/kg body weight		
Uronium hydrogen sulphate (21351-39-3)			
LD50 oral rat	350 mg/kg body weight Farm Chemicals Handbook. Vol, Pg. C124, 1991.		
LD50 dermal rat	> 2000 mg/kg body weight		
manganese sulphate (7785-87-7)			
LD50 oral rat	2150 mg/kg Indian Journal of Pharmacology, 23(3): 153-159		
LC50 inhalation rat (mg/l)	> 4.45 mg/l (OECD 403 method)		
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Skin corrosion/irritation	: Causes skin irritation.
	pH: 1
Serious eye damage/irritation	: Causes serious eye damage.
	pH: 1
Respiratory or skin sensitization	: Not classified (Based on available data, the classification criteria are not met)
	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)

manganese sulphate (7785-87-7) NOAEL (chronic,oral,animal/male,2 years) 615 mg/kg body weight	
NOAEL (chronic oral animal/male 2 years) 615 mg/kg body weight	
NOAEL (chronic,oral,animal/female,2 years) 715 mg/kg body weight	
Reproductive toxicity : Not classified (Based on ava	ailable data, the classification criteria are not met)
	e product is available. The information given is based on our ts and the classification of the product is determined by calculation
STOT-single exposure : Not classified (Based on ava	ailable data, the classification criteria are not met)
	e product is available. The information given is based on our ts and the classification of the product is determined by calculation
	ns (brain) through prolonged or repeated exposure (Inhalation). e classification criteria are not met)
	e product is available. The information given is based on our ts and the classification of the product is determined by calculation
manganese sulphate (7785-87-7)	
STOT-repeated exposure May cause damage to organ	s through prolonged or repeated exposure.
Aspiration hazard : Not classified	
product is available. The info	ne classification criteria are not met. No experimental study on the ormation given is based on our knowledge of the components and uct is determined by calculation)
Viscosity, kinematic : No data available	
Symptoms/effects : (see section(s) : 2.1/2.3).	

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation. The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Before neutralisation, the product may represent a danger to aquatic organisms. Do not allow

uncontrolled discharge of product into the environment.

Uronium hydrogen sulphate (21351-39-3)		
LC50 fish 1	> 79 mg/l Oryzias latipes	
LC50 other aquatic organisms 1	13477 mg/l Helisoma trivolvis, 48h	
ErC50 (algae)	> 79 mg/l Pseudokirchneriella subcapitata, 72h	
NOEC (acute)	1000 mg/l 3h	
manganese sulphate (7785-87-7)		
LC50 fish 1	14.5 mg/l Oncorhynchus mykiss (OECD 203 method)	
EC50 Daphnia 1	9.8 mg/l Daphnia magna (Results obtained on a similar product)	
ErC50 (algae)	61 mg/l Desmodesmus subspicatus (OECD 201 method)	
NOEC chronic fish	0.6 mg/l Onchorhynchus mykiss, 4 months	

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12.2. Persistence and degradability		
TIMn		
Persistence and degradability	Not established.	
Uronium hydrogen sulphate (21351-39-3)		
Persistence and degradability	Readily biodegradable.	
manganese sulphate (7785-87-7)		
Persistence and degradability	Not readily biodegradable.	
Biodegradation	Not applicable	
2.3. Bioaccumulative potential		
TIMn		
Bioaccumulative potential	Not established.	
Uronium hydrogen sulphate (21351-39-3)		
Log Kow	-1.56	
Bioaccumulative potential	Not potentially bioaccumulable.	
manganese sulphate (7785-87-7)		
Bioaccumulative potential	Not potentially bioaccumulable.	
12.4. Mobility in soil		
No additional information available		

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations		
13.1. Disposal methods		
Regional legislation (waste)	: Disposal must be done according to official regulations.	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
Sewage disposal recommendations	: Disposal must be done according to official regulations.	
Product/Packaging disposal recommendations	: Discharging into rivers and drains is forbidden.	
Additional information	: Do not re-use empty containers.	

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

- Transport document description UN-No.(DOT) Proper Shipping Name (DOT) Class (DOT) Packing group (DOT) Hazard labels (DOT)
- : UN1760 Corrosive liquids, n.o.s. (Uronium hydrogen sulphate), 8, II
- : UN1760
- : Corrosive liquids, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : II Medium Danger
- : 8 Corrosive



DOT Packaging Non Bulk (49 CFR 173.xxx)	:	202
DOT Packaging Bulk (49 CFR 173.xxx)	:	242

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DOT Special Provisions (49 CFR 172.102) DOT Packaging Exceptions (49 CFR 173.xxx)		 B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T11 - 6 178.274(d)(2) Normal
DOT Quantity Limitations Passenger aircraft/rail		
(49 CFR 173.27)		
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	30 L
DOT Vessel Stowage Location	:	B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	:	40 - Stow "clear of living quarters"
Emergency Response Guide (ERG) Number	:	154
Other information	:	No supplementary information available.
Transportation of Dangerous Goods		
Transport document description	:	UN1760 CORROSIVE LIQUID, N.O.S. (Uronium hydrogen sulphate), 8, II
UN-No. (TDG)	:	UN1760
Proper Shipping Name (Transportation of Dangerous Goods)	:	CORROSIVE LIQUID, N.O.S.
TDG Primary Hazard Classes	:	8 - Class 8 - Corrosives
Packing group	:	II - Medium Danger
TDG Special Provisions		16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a)UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b)UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c)UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, TOXIC, N.O.S; (d)UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e)UN3249, MEDICINE, SOLID, TOXIC, N.O.S. An example in Canada is the "Food and Drugs Act". (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a)UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b)UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS. SOR/2014-306
Explosive Limit and Limited Quantity Index		1L
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	:	1L
Transport by sea		
Transport document description (IMDG)	:	UN 1760 CORROSIVE LIQUID, N.O.S. (Uronium hydrogen sulphate), 8, II
UN-No. (IMDG)	:	1760

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Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: II - substances presenting medium danger
Limited quantities (IMDG)	: 1L
EmS-No. (1)	: F-A
EmS-No. (2)	: S-B
Air transport	
Transport document description (IATA)	: UN 1760 Corrosive liquid, n.o.s. (Uronium hydrogen sulphate), 8, II
UN-No. (IATA)	: 1760
Proper Shipping Name (IATA)	: Corrosive liquid, n.o.s.
Class (IATA)	: 8 - Corrosives

: II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

Packing group (IATA)

Uronium hydrogen sulphate (21351-39-3) Listed on the United States TSCA (Toxic Substances Control Act) inventory

manganese sulphate (7785-87-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Uronium hydrogen sulphate (21351-39-3)		
Listed on the Canadian DSL (Domestic Substances List)		
manganese sulphate (7785-87-7)		
	Listed on the Canadian DSL (Domestic Substances List)	

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

SECTION 16: Other information

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Full text of H-phrases:

 •	
H290	May be corrosive to metals
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H373	May cause damage to organs through prolonged or repeated exposure

Abbreviations and acronyms:

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ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IARC	International Agency for Research on Cancer
LC50	Median lethal concentration
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
ATE	Acute Toxicity Estimate
EC50	Median effective concentration
SDS	Safety Data Sheet
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative
A health hazard	: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
A fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
A reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
ard Rating	•
th	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment given
nmability	: 0 Minimal Hazard - Materials that will not burn
sical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NC react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
onal protection	:1

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.