



<b>WORX READILY BIODEGRADABLE HEAVY DUTY DEGREASER</b>		DOC NO : 01/010620 ISSUE DATE : 25 June 2016 REV NUMBER : 3 (01/06/2020)	
<b>SECTION 1 - IDENTIFICATION OF SUBSTANCE/PRODUCT AND THE COMPANY</b>			
<b>PRODUCT NAME</b>		<b>WORX READILY BIODEGRADABLE HEAVY DUTY DEGREASER</b>	
<b>DESCRIPTION</b>		<b>Cut, quick break, readily biodegradable water-based degreaser. Grade: Mining</b>	
<b>SUPPLIER</b>		<b>TELEPHONE</b> <b>EMAIL</b> <b>EMERGENCY NUMBERS (24 HOURS)</b>	<b>0861 000 487</b> <b>admin@lubritech.co.za</b> <b>0104493358/0614265621</b>
Lubritech (Pty) Ltd 11 Ibis Lane Fourways			
<b>SECTION 2 – SOURCE AND COMPOSITION/DATA ON CONTENTS</b>			
<b>CHEMICAL NAME</b>		<b>CAS NO.</b>	<b>HAZARD</b>
Disodium Trioxosilicate		6834-92-0	C; R36/37/38
			% RANGE <3.0
<b>SECTION 3 – HAZARDS IDENTIFICATION</b>			
<b>MAIN HAZARD</b> <b>HEALTH EFFECTS</b> EYES SKIN INGESTION INHALATION		Irritating to eyes and skin.  Causes irritation to eyes. Causes irritation to skin and prolonged contact with concentrate will cause drying. Swallowing this material will irritate the digestive tract, including the mouth, throat, stomach. Low. Product is aqueous based. <i>Causes irritation to respiratory tract. Symptoms include coughing, shortness of breath.</i>	
			
<b>SECTION 4 – FIRST AID INFORMATION</b>			
<b>EYES</b>  <b>SKIN</b> <b>INGESTION</b> <b>INHALATION</b>		Irritating to eyes. Hold the eyelids apart and wash/flush the eyes gently with water for at least 15 minutes. Seek medical attention. Irritating to skin. Immediately wash skin & clothing with water and soap. Seek medical attention if irritation persists. Do not swallow. Rinse out mouth and then drink plenty of water. Obtain medical attention. Product is non-volatile, aqueous based, inhalation risk is minimal. Remove the individual to a well-ventilated area and get immediate medical attention. If breathing is difficult, give oxygen. If breathing stops, give artificial respiration.	
<b>SECTION 5 – FIRE FIGHTING MEASURES</b>			
<b>EXTINGUISHING MEDIA</b>  <b>FLASH POINT</b> <b>HAZARDOUS COMBUSTION PRODUCTS</b> <b>FIRE FIGHTING EQUIPMENT</b>		Product is non-flammable. Water based. Use extinguishing media (E.g. CO2 / Water / Foam / Dry Powder) suitable for surrounding fire. Not applicable. Carbon Dioxide. Full protective suit with breathing apparatus. Goggles, gloves etc.	
<b>SECTION 6 – ACCIDENTAL RELEASE MEASURES</b>			
<b>PERSONAL PRECAUTIONS</b>  <b>ENVIRONMENTAL PRECAUTIONS</b>  <b>SPILLAGES:</b> <b>SMALL QUANTITIES</b> <b>LARGE QUANTITIES</b>		Avoid ingestion, contact with eyes & skin. Wear suitable protective clothing. (Refer to Section 8) Prevent run-off into sewers or any ground or surface water-way. Prevent unauthorised access to the area.  Ventilate area. Absorb with inert non-combustible material & transfer to waste container. Wash residues with large amounts of water. Ventilate area of leak or spill. Contain spill & absorb with inert non-combustible material. Wash residues with large amounts of water.	
<b>SECTION 7 – HANDLING AND STORAGE</b>			
<b>HANDLING PRECAUTIONS</b> <b>STORAGE</b>		Store in tightly sealed, properly labelled tanks or containers. Can be stored up to 6 months in sealed containers at room temperature, out of direct Sun light. Do not remove labels. Do not mix contents with other products.	
<b>SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION</b>			



OCCUPATIONAL EXPOSURE LIMITS	No limits assigned.
ENGINEERING CONTROL MEASURES	Provide eye wash station. Ventilation – natural.
RESPIRATORY PROTECTION	Not applicable.
<b>PERSONAL PROTECTION</b>	
HANDS	Neoprene / Chloroprene gloves.
EYES	Face shield or goggles.
SKIN / BODY PROTECTION	Overalls.

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES (CONTINUED)**

OXIDIZING PROPERTIES	Not applicable.
FLAMMABILITY	Not applicable.
FLASH POINT	Not applicable.
BOILING POINT	> 100°C.

**SECTION 10 – STABILITY AND REACTIVITY**

CONDITIONS TO AVOID	None. Stable
INCOMPATIBILITY WITH OTHER PRODUCTS	No known adverse reactions. <i>Acids and strong Oxidizing materials.</i>
HAZARDOUS DECOMPOSITION PRODUCTS	No typical hazardous decomposition products known. <i>No decomposition if used and stored according to specifications, otherwise Carbon Dioxide / Monoxide.</i>

**SECTION 11 – TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY	No known chronic effects.
EYES	Serious risk to eyes
SKIN	Prolonged contact may cause drying of skin and subsequent irritation.
INGESTION	Low acute toxicity. Will cause irritation to mucus membranes in mouth, throat, stomach & intestinal canal. Refer to Section 3.
INHALATION	Refer Section 3.
CARCINOGENICITY	Individual ingredients show no evidence of carcinogenicity. Not anticipated.
MUTAGENICITY	Not anticipated.
REPRODUCTIVE HAZARDS	

**SECTION 12 – ECOLOGICAL INFORMATION**

BIO-ACCUMULATION	Will not bio-accumulate.
BIO-DEGRADABILITY	Individual organic ingredients biodegradable. >80% BOD 28 days CBT (OECD 301D) LC 50 >2600
AQUATIC TOXICITY – FISH	Harmful to aquatic organisms and aquatic environment in high concentrations.
AQUATIC TOXICITY – DAPHNIA	LC 50 >2600 mg/l
AQUATIC TOXICITY – ALGAE	No data
MOBILITY	Mobile – disperses in water.

**SECTION 13 – DISPOSAL CONSIDERATIONS**

PRODUCT DISPOSAL	Must comply with Local, Provincial and National regulations. Waste characterisation and compliance with Disposal Regulations is the responsibility of the waste generator. Supplier can collect empty undamaged containers incl. caps. Alternatively, disposal must comply with Local, Provincial and National regulations. Waste characterisation and compliance with Disposal Regulations is the responsibility of the waste generator. Recovered loads or liquids may be sent to a licensed Reclaimer or disposed of in a permitted Waste Management Facility. Consult National, Provincial or Local Disposal Authorities for approved Procedures.
CONTAINER DISPOSAL	
SPILL RESIDUE	

**SECTION 14 – TRANSPORT INFORMATION (ACCORDING TO SABS 0228 & 0229)**

UN NUMBER	Not hazardous for transport
CLASS	Not applicable
PACKING GROUP	Not applicable
ERG NUMBER	Not applicable

**SECTION 15 – REGULATORY INFORMATION**

HAZARD CLASSIFICATION	None
RISK PHASES	R36/38.
SAFETY PHASES	S24/25, S36/37/39.
NATIONAL LEGISLATION	Occupational Health and Safety Act (No. 85 of 1993) Regulation R1449 of 6 September 1996. Government Notice No. 17403. Regulations for Hazardous Chemical Substances. SANS 10265. The classification and labelling of dangerous substances and preparations. SANS 10234. Globally harmonized system of classification and labelling of chemicals (GHS)

**SECTION 16 – OTHER INFORMATION**

**RISK PHRASES**

R36/38: Irritating to eyes and skin

R36/37/38: Irritating to eyes, respiratory system and skin

**SAFETY PHRASES**

S24/25: Avoid contact with skin and eyes

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection

**CHEMICAL DATA****1. SOURCE AND COMPOSITION/DATA ON CONTENTS**

Composition	Concentration	CAS Number	EINECS	Hazard	Risk Phrases	OES
Optimised Surfactant Blend	< 10 %	Proprietary Information	Proprietary Information	Xn,X1,N	R22,R41,R51,R53	-
Disodium Trioxosilicate	< 3.0 %	6834-92-0		G	R36,R37,R38	

**2. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state:</b>	Liquid
<b>Form:</b>	Water
<b>Color:</b>	Fluorescent green
<b>Odour:</b>	Neutral
<b>pH:</b>	12.5 – 13.5
<b>Relative density at 20 ° C</b>	Approx. 0.965
<b>Vapor Pressure at 20° C:</b>	Essentially water vapor
<b>Solubility in water at 20° C:</b>	Complete
<b>Flash point</b>	Non measurable (water-based)

**3. TOXICOLOGICAL DATA FOR INDIVIDUAL COMPONENTS**

<b>Component</b>	Acute Toxicity
<b>Disodium Trioxosilicate</b>	LD50 Oral (Rat) 1.4mg/kg
<b>Surfactant 1 (proprietary information)</b>	Oral: 200<LD50<2000mg.kg-1 Dermal: LD50>2000mg.kg-1 Inhalation: LC50>5mg.kg-1
<b>Surfactant 2 (proprietary information)</b>	LD50 oral (rat): <2000mg.kg-1

**4. ECOLOGICAL INFORMATION****Ecotoxicity for individual components:**

<b>Component</b>	Acute Toxicity
<b>Disodium Trioxosilicate</b>	LC 50 F154-210mg/l – 96 hours
<b>Surfactant 1 (Proprietary information)</b>	fish: 1<LC50<10mg.1-1

	Daphnia: 1<LC50<10mg.1-1 Algae:1<LC50<10mg.1-1
<b>Surfactant 2 (Proprietary Information)</b>	LC50 95h (fish): 1-10mg.1-1

**5. DEGRADABILITY:** (5% solution): Biodegradable: COD 2850 mg.L-1  
BOD (5 day) 4400 mg.L-1

**6. BIOACCUMULATION:** No bioaccumulation is expected. The product is biodegradable and water- soluble.

APPEARANCE:	Fluorescent light green
ODOUR:	Neutral
PH CONCENTRATE AT 20°C:	12.5 – 13.5
PH (10 g/l) AT 20°C:	9.0 – 12.0
DENSITY:	1.05 +-0.01kg/l soluble
SOLUBILITY – WATER:	100%
SOLUBILITY – SOLVENT:	Not applicable