



# Material Safety Data Sheet

## SECTION 1 PRODUCT IDENTIFICATION

<b>PRODUCT NAME</b> ENGINE FLUSH (MMP Industrial)  <b>SYNONYMS</b>	<b>REGULAR TELEPHONE NO.</b> (+61 3) 9720-4400 <b>EMERGENCY TELEPHONE NO.</b> (+61 3) 5941-1763
<b>MANUFACTURER'S NAME AND ADDRESS</b> TRU-BLU OIL AUSTRALIA PTY LTD 6 Dunlop Court, Bayswater, Victoria, Australia, 3153	
<b>DISTRIBUTOR'S NAME AND ADDRESS</b> TRU-BLU OIL AUSTRALIA PTY LTD 6 Dunlop Court, Bayswater, Victoria, Australia, 3153	Phone: +61 3 9720 4400 Fax: +61 3 9720 5821
<b>PRODUCT TYPE</b> PETROLEUM DEGREASER	<b>CHEMICAL FAMILY</b> PETROLEUM HYDROCARBON

## SECTION 2 PRODUCT CONTENT

MATERIAL OR COMPONENT	PROPORTION %
LOW REFINED MINERAL OIL MIXTURE HYDROCARBON SOLVENTS	Less than 60% w/w Less than 40% w/w

NOTE (1) Where percentages are quoted, please specify by volume or by weight

## Section 3 USE INSTRUCTIONS

<b>FOR WHAT PURPOSE IS THE PRODUCT USED?</b> AS AN ADDITION TO ENGINE OIL TO AID REMOVAL OF CONTAMINATES.
<b>WHAT ARE THE DIRECTIONS FOR USE?</b> AS REQUIRED BY DISTRIBUTOR.
<b>PACK SIZE</b> 205 litre Drum

## SECTION 4 PROPERTIES

<b>APPEARANCE AND ODOUR</b> HONEY COLOUR, SLIGHT ODOUR	<b>PH</b> NOT KNOWN
<b>BOILING POINT °C</b> I.B.P. 160 °C	<b>VAPOUR DENSITY (AIR = 1)</b> NOT KNOWN
<b>MELTING POINT</b> NOT APPLICABLE	<b>VAPOUR PRESSURE</b> (MM OF Hg at 0.015K.P.A. @99 °C )
<b>VOLATILES (% VOLUME)</b> (METHOD) - NEGLIGIBLE	<b>EVAPORATION (BUTYLACETATE =1)</b> -
<b>SOLUBILITY IN WATER</b> .1% MASS	<b>DENSITY (KG/L)</b> 0.884 @ 25 °C

## SECTION 5 FIRE AND EXPLOSION DATA

<b>FIRE AND EXPLOSION HAZARD</b>			
<b>FLASH POINT (°C)</b> C.O.C. 150°C	<b>EXPLOSIVE LIMITS IN AIR (% VOLUME)</b>		<b>AUTO IGNITION TEMPERATURE</b> 400 °C
	<b>LOWER</b> NOT ESTABLISHED	<b>UPPER</b> NOT ESTABLISHED	
<b>METHOD USED</b>			
<b>FIRE EXTINGUISHING MEDIA</b>	FOAM, HALON, CARBON DIOXIDE AND EXTINGUISHING POWDER.		
<b>SPECIAL FIRE FIGHTING PROCEDURES.</b> USE RESPIRATOR FOR FIRE FIGHTERS. SHUT OFF FUEL AT SOURCE. MATERIAL WILL FLOAT ON WATER.			
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS.</b> NONE			

## Section 6 HEALTH HAZARD INFORMATION

### EMERGENCY AND FIRST AID PROCEDURES

<b>INHALATION</b> CERTAIN OPERATIONS SUCH AS AIR BLOWING AT ELEVATED TEMPERATURES MAY GENERATE OIL MISTS, WHICH IF INHALED IN HIGH CONCENTRATIONS MAY CAUSE LUNG
---

IRRITATION. MOVE TO FRESH AIR. LOOSEN CLOTHING. KEEP AT REST UNTIL FULLY RECOVERED.
<b>EYES</b> IMMEDIATELY FLUSH EYES WITH PLENTY OF FRESH WATER FOR AT LEAST 15 MINS. REMOVE CONTAMINATED CLOTHING.
<b>SKIN</b> REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. OBTAIN MEDICAL ATTENTION FOR ANY SUBSEQUENT PERSISTENT IRRITATION.
<b>INGESTION</b> DO NOT INDUCE VOMITING. GIVE WATER TO DILUTE, CALL PHYSICIAN. LOW ORDER OF TOXICITY. ASPIRATION OR SEVERE EXPOSURE MAY CAUSE PNEUMONITIS. HAZARDOUS MATERIAL IDENTIFICATION SYSTEM 0 = MINIMUM, 4 = SEVERE THIS PRODUCT IS RATED HEALTH1, PERSONAL PROTECTION 0, REACTIVITY 0, FLAMMABILITY 2.

## TOXICOLOGICAL DATA

<p><b>TOXICITY DATA.</b> (Please list and differentiate between effects of acute and chronic exposure.) THRESHOLD LIMIT VALUE: OIL MIST – THERE IS NO EXPOSURE STANDARD ALLOCATED TO THIS PRODUCT.</p> <p>NO ADVERSE EFFECTS EXPECTED IF THE PRODUCT IS HANDLED IN ACCORDANCE WITH THIS SAFETY DATA SHEET AND THE PRODUCT LABEL.</p>
<p><b>ORAL TOXICITY</b> POSSIBLE IRRITATION OF THE MOUTH, GULLET AND STOMACH. VOMITING MAY LEAD TO ASPIRATION INTO LUNGS.</p>
<p><b>DERMAL TOXICITY</b> PROLONGED OR REPEATED CONTACT WITH PRODUCT MAY DEFAT OR DRY THE SKIN RESULTING IN SLIGHT IRRITATION OR DERMATITIS.</p>
<p><b>INHALATION TOXICITY</b> DUE TO IT'S LOW VOLATILITY THE MATERIAL IS NOT AN INHALATION HAZARD AT AMBIENT TEMPERATURES. WHEN HEATED LARGE QUANTITIES OF MISTS OR VAPOURS MAY CAUSE SIMILAR EFFECTS TO INGESTION.</p>
<p><b>EYE IRRITATION</b> SLIGHT EYE IRRITATION.</p>

## SECTION 7 REACTIVITY DATA

<b>STABILITY (PLEASE TICK APPROP. BOX)</b>	STABLE <input checked="" type="checkbox"/>
	UNSTABLE <input type="checkbox"/>
CONDITIONS TO AVOID: MATERIAL IS NORMALLY STABLE AT AMBIENT TEMPERATURES AND PRESSURES.	

<b>HAZARDOUS POLYMERIZATION</b>	WILL NOT OCCUR <input checked="" type="checkbox"/>
	MAY OCCUR <input type="checkbox"/>
<b>MATERIALS / SITUATIONS TO AVOID</b> AVOID CONTACT WITH STRONG OXIDIZING AGENTS.	

## SECTION 8 SPILLAGE AND DISPOSAL

<b>STEPS TO BE TAKEN IF MATERIAL IS LEAKED OR SPILLED</b> CONTAIN AND ABSORB ON FIRE RETARDANT TREATED SAWDUST, DIATOMACEOUS EARTH ETC.
<b>WASTE DISPOSAL METHOD</b> SHOVEL UP AND DISPOSE OF AT AN APPROPRIATE LICENSED WASTE DISPOSAL SITE IN ACCORDANCE WITH CURRENT APPLICABLE LAWS AND REGULATIONS AND PRODUCT CHARACTERISTICS AT THE TIME OF DISPOSAL. IN ADDITION THE PRODUCT IS SUITABLE FOR PROCESSING BY AN APPROVED RECYCLING FACILITY OR CAN BE DISPOSED OF AT ANY LICENSED WASTE DISPOSAL SITE.

## SECTION 9 PRECAUTIONS FOR HANDLING

<b>VENTILATION REQUIREMENTS</b> USE ADEQUATE VENTILATION. AVOID BREATHING MIST OR VAPOUR
<b>EYE PROTECTION (TYPE)</b> NORMAL INDUSTRIAL EYE PROTECTION PRACTICES SHOULD BE ADHERED TO. USE CHEMICAL SPLASH GOGGLES. DO NOT GET IN EYES.
<b>SKIN PROTECTION</b> AVOID CONTACT WITH CLOTHING OR PROLONGED CONTACT WITH SKIN. AFTER HANDLING, REMOVE CONTAMINATED CLOTHING. LAUNDRER BEFORE USE. THE USE OF AN EMOLLIENT AFTER WASHING AFTER WORK PERIOD IS RECOMMENDED.
<b>RESPIRATORY PROTECTION</b>

USE RESPIRATORY EQUIPMENT IN VERY CONFINED SPACES IF HIGH AMBIENT TEMPERATURES.

**PROTECTIVE CLOTHING**  
WEAR PVC APRON AND CHEMICAL SPLASH BOOTS WHERE CLOTHING IS LIKELY TO BE CONTAMINATED. USE CHEMICAL SPLASH GLOVES

**SECTION 10 STORAGE AND TRANSPORT**

**SHELF LIFE:** 5 YEARS

**STORAGE** STORE ONLY IN ORIGINAL OR APPROVED CONTAINERS IN COOL AREA. STORE AWAY FROM STRONG OXIDANTS.

<b>TRANSPORT</b> KEEP CONTAINER CLOSED THIS MATERIAL HAS NO KNOWN HAZARDS AS DEFINED BY 29 CFR 1910.1200, AND IS NOT CLASSIFIED AS DANGEROUS GOODS.	<b>HAZ CHEM CODE</b> N/A
	<b>SUB RISK CLASS</b> N/A
	<b>CLASS</b> UNLISTED

PREPARED BY	TITLE	COMPANY	DATE
MURRAY CRAWFORD	MANAGING DIRECTOR	TRU-BLU OIL AUSTRALIA PTY LTD	23 <sup>rd</sup> May, 2014
<b>APPROVED BY COMPANY MANAGER</b> NAME : MURRAY CRAWFORD		<b>SIGNATURE</b> (Signed) 	