# SAFETY DATA SHEET (SDS)

# (DIESEL ENGINE INTAKE/EGR WATER BASE

# RINSE)

Section 1:	PRODUCT AND COMPANY IDENTIFICATION
Product Name	: (FL 132)
Synonyms	:
Recommended use	: Anti- Corrosion Inhibitor
Restrictions on use	:
Product dilution information	on : 1:10 – 1:50
Company	<ul> <li>Precision Chemical Manufacturing Ltd 16671 113 Avenue</li> <li>Edmonton, Alberta Canada T5M 2X2 (780) 484-5641</li> </ul>
Emergency telephone number	: US/Canada CANUTEC (613) 996-6666
Issuing date	: March 22, 2016
Section 2:	HAZARD IDENTIFICATION

### Product AS SOLD

Physical and Chemical hazards	:	Not Flam	nabl	e or Combustible
GHS Classification	:	Eye irritation	:	Category 2B
Harzard Pictograms	:	May be harmful if swallowed	:	Category 5

### Warning

Hazard Statements	:	H320 Causes eye irritation H303 May be harmful if swallowed
Precautionary Statements	:	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses. If present and easy to do. Continue rinsing.
Potential Health Effects		P312 Call a POISON CENTRE or doctor/physician if you feel unwell.
Eyes	:	May cause eye irritation. Inflammation of the eye is characterized by redness, watering and itching.
Skin	:	No known acute effects of this product resulting from skin contact.

Ingestion	:	May cause upset stomach or nausea. If effects persist consult a physician or call POISON CENTRE,
Inhalation	:	Not likely under normal conditions.
Chronic Exposure	:	Prolonged or repeated contact may dry skin and cause irritation.
Product AT USE DILUTION		
Physical and chemical hazards	:	Not flammable or combustible
Eyes	:	May cause eye irritation. Inflammation of the eye is characterized by redness, watering and itching.
Skin	:	No known acute effects of this product resulting from skin contact.
Ingestion	:	May cause upset stomach or nausea. If effects persist consult a physician or call POISON CENTRE,
Inhalation	:	Not likely under normal conditions.
Chronic Exposure	:	Prolonged or repeated contact may dry skin and cause irritation.

### Product AS SOLD

Pure substance/mixture : Mixture		
Chemical Name	CAS-No.	<b>Concentration (%)</b>
Tetrasodium ethylenediamine tetraacetate	64-02-8	≥5 - <10
Sodium (C14 – 16)Olefin Sulfonate	68439-57-6	<1
Product AT USE DILUTION	CAS-No.	Concentration (%)
Tetrasodium ethylenediamine tetraacetate	64-02-8	<1

Section 4:	FIRST AID MEASURES
Product AS SOLD	
In case of eye contact	: Flush with Water for at least 15 minutes. Call a physician if irritation persists.
In case of skin contact	: Not applicable. If irritation occurs wear suitable protective gloves.
Ingestion	: Do not induce vomiting. Never give anything to an unconscious person. Drink 3-4 glasses of milk or water. Call a physician or POISON CONTROL immediately.
Inhalation	: Remove to fresh air.
Protection for first-aid respondents	: If potential for exposure exists refer to section 8 for specific personal protective equipment.
Notes to physician	: Treat symptomatically.

Product AT USE DILUTION		
In case of eye contact	:	Flush with Water for at least 15 minutes. Call a physician if irritation persists.
In case of skin contact	:	Not applicable. If irritation occurs wear suitable protective gloves.
Ingestion	:	Do not induce vomiting. Never give anything to an unconscious person. Drink 3-4 glasses of milk or water. Call a physician or POISON CONTROL immediately.
Inhalation	:	Remove to fresh air.
Protection for first-aid respondents	:	If potential for exposure exists refer to section 8 for specific personal protective equipment.
Notes to physician	:	Treat symptomatically.

See toxicological information (Section 11)

Section 5:	FIREFIGHTING MEASURES

Product	AS	SOLD	
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Suitable extinguishing media	÷	CO <sub>2</sub> , dry Foam, and water spray.
Unsuitable extinguishing media	:	None known.
Specific hazards during firefighting	:	Not Flammable or combustible
Hazardous combustion products	:	Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NOx) Sulphur oxides
Special protective equipment for firefighters	:	Wear adequate respiratory protection and clothing protection.
Specific extinguishing methods	:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.
Risk of explosion	:	None.

Section 6:	ACCIDENTAL RELEASE MEASURES
<b>Product AS SOLD</b> Personal precautions, p equipment and emerge	
procedures Environmental precauti	ons : None.
Methods and materials containment and cleani	· · · · · · · · · · · · · · · · · · ·
Product AT USE DILL	JTION

Personal precautions, protective equipment and emergency procedures	:	Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	None.
Methods and materials for containment and cleaning up	:	Dilute with water and mop up if water soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor according to local/national regulations.

Section 7:	HANDLING	AND STORAGE
Product AS SOLD Advise on safe handling	:	Do not ingest. Avoid contact with eyes. Wash thoroughly after handling.
Conditions for safe stora	ge :	Store in suitable labeled containers. Keep out of reach of children. Store containers in a cool dry, and well ventilated area.
Storage tempurature	:	5°C - 40°C (41°F - 104°F)
Product AT USE DILU	TION	
Advise on safe handling	:	Do not ingest. Avoid contact with eyes. Wash thoroughly after handling.
Conditions for safe stora	ge :	Store in suitable labeled containers. Keep out of reach of children. Store containers in a cool dry, and well ventilated area.
Storage tempurature	:	5°C - 40°C (41°F - 104°F)

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Product AS SOLD

#### Personal protective equipment

Eye protection	:	Recommended: Safety glasses
Hand protection	:	For prolonged or repeated handling, use gloves. Nitrile or rubber gloves
Skin protection	:	No protective equipment is needed under normal use conditions
Respiratory protection	:	No special measures required.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practices. Provide suitable facilities for flushing or rinsing eyes in the event of contact or splash.

### Product AT USE DILUTION

Personal protective equipment		
Eye protection	:	Recommended: Safety glasses
Hand protection	:	For prolonged or repeated handling, use gloves. Nitrile or rubber gloves
Skin protection	:	No protective equipment is needed under normal use conditions
Respiratory protection	:	No special measures required.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practices. Provide suitable facilities for flushing or rinsing eyes in the event of contact or splash.

#### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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Product AS SOLD		
Appearance	:	Liquid
Color	:	Clear Blue
Odor	:	Mild
pH	:	10.5-11
Flash point	:	Not Applicable
Odor Threshold	:	No data available
Melting point/freeze point	:	
Initial boiling point and boiling	:	100°C (212°F)
range		· · · ·
Evaporation rate	:	< 1 (Butyl Acetate = 1)
Flammability (solid, gas)	:	No data available
Upper exposure limits	:	No data available
Lower exposure limits	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	1.021
Water solubility	:	100%
Solubility in other solvents	:	No data available
Partition coefficient: n-	:	No data available
octanol/water		
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Oxidizing properties	:	No data available
Molecular weight	:	No data available
VOC	:	No data available

Product AT USE DILUTION Liquid **Clear Blue** Mild 8-9

#### STABILITY AND REACTIVITY Section 10:

Product AS SOLD Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	None.
Conditions to avoid	:	None.
Incompatible material	:	None.
Hazardous decomposition products	:	Carbon oxides (CO, CO <sub>2</sub> )

Skin

Section 11:	TOXICOLOGICAL INFORMATION		
Information on likely rou exposure	ites of :	Eye contact, and skin contact.	
Potential Health Effect	s		
Product AS SOLD Eyes	÷	May cause eye irritation.	

Ingestion	:	May cause gastrointestinal irritation, consult a physician or POISON CONTROL immediately.
Inhalation	:	Inhalation not likely under normal conditions.
Chronic exposure	:	Prolonged or repeated contact may dry skin and cause irritation.
Product AT USE DILUTION		
Eyes	:	May cause eye irritation.
Skin	:	Prolonged or repeated contact may cause dryness or mild irritation.
Ingestion	:	May cause gastrointestinal irritation, consult a physician or POISON CONTROL immediately.
Inhalation	:	Inhalation not likely under normal conditions.
Chronic exposure	:	Prolonged or repeated contact may dry skin and cause irritation.
Experience with human exposur	re	
Product AS SOLD Eyes Contact	:	Redness, Pain, and watering of the eyes
Skin	:	Mild irritation may occur after prolonged or repeated contact.
Ingestion	:	None recorded.
Inhalation	:	None recorded.
Product AT USE DILUTION		
Eyes Contact	:	Redness, Pain, and watering of the eyes
Skin	:	Mild irritation may occur after prolonged or repeated contact.
Ingestion	:	None recorded.
Inhalation	:	None recorded.
Toxicity		
Product AS SOLD Acute oral toxicity	:	No data available
Acute inhalation toxicity	:	No data available
Acute dermal toxicity	:	No data available
Skin corrosion/irritation	:	No data available
Serious eye damage/eye irritation	:	No data available
		Nie dere sone Welche

- Respiratory or skin sensitization : No data available
- Carcinogenicity : No data available

Reproductive effects	:	No data available	
Germ cell mutagenicity	:	No data available	
Teratogenicity	:	No data available	
STOT – single exposure	:	No data available	
STOT – repeated exposure	:	No data available	
Aspiration toxicity	:	No data available	
Components			
Sodium (C14-16) olefin sulfonate			LD₅₀ORAL(RAT) 1300 - 2400 mg/Kg LD₅₀DERMAL(RABBIT) >2000mg/Kg
Tetrasodium ethylenediamine tetra	acet	ate	LD₅₀ORAL(RAT) 3030 mg/Kg LD₅₀DERMAL(RABBIT) >5000mg/Kg

Section 12: ECOLOGICAL INFORMATION

Product AS SOLD Ecotoxicity		
Environmental Effects	:	No data available
Product		
Toxicity to fish	:	No data available
Toxicity to daphnia and other aquatic invertebrates	:	No data available
Toxicity to algae	:	No data available
Components		
Toxicity to fish	:	Tetrasodium ethylenediamine tetraacetate 96 h LC50 Pimephales promelas (fathead minnow): >100 mg/L Sodium (C14-16) olefin sulfonate
		96 h LC50 Fish: 2.5 - 5 mg/L
Components		
Toxicity to daphnia and other aquatic invertebrates	:	Sodium (C14-16) olefin sulfonate 48 h EC50 Daphnia magna : 4.48 mg/L
Components		
Toxicity to algae	:	Sodium (C14-16) olefin sulfonate 48 h EC50 Algae: 4.48 mg/L
Persistance and degradability PRODUCT AS SOLD	:	Readily biodegradable.
PRODUCT AT USE DILUTION	:	Readily biodegradable.

Bioaccumulative potential	:	No data available
Mobility in soil	:	No data available
Other adverse effects	:	No data available

Section 13:	DISPOSAL	CONSIDERATIONS
Product AS SOLD		
Disposal methods	:	Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of product in accordance to local/national regulations. Dispose of wastes in an approved disposal facility.
Disposal considerations	:	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycle or disposal. Do not re-use empty containers.
PRODUCT AT USE DIL	UTION	
Disposal methods	÷	Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of product in accordance to local/national regulations. Dispose of wastes in an approved disposal facility.
Disposal considerations	:	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycle or disposal. Do not re-use empty containers.

Section 14:	TRANSPORTATION INFORMATION
Product AS SOLD	
The shipper/consignor, selected mode of trans	sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the port.

Regulatory information	UN Number	Proper shipping name	Class	Packing Group	Label
TDG Classification		NON REGULATED			
DOT Classification		NON REGULATED			

Note: DOT classification applies to most packaging sizes. For specific container size classification or for size exemptions, refer to the Bill of Lading with your shipment.

#### Product AT USE DILUTION

Not intended for transport.

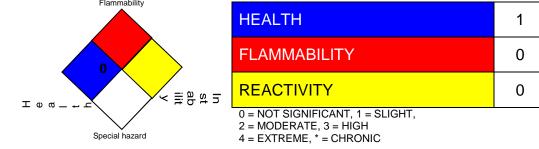
## Section 15: REGULATORY INFORMATION

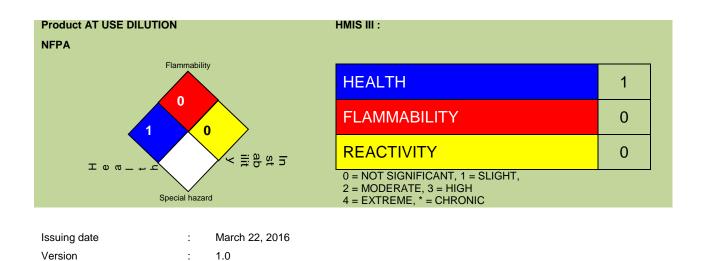
Product AS SOLD WHMIS Classification

: None

Product AT USE DILUTION

WHMIS Classification	n : None
This product has been on by the CPR.	classified according to the hazard criteria of the CPR and the SDS contains all of the information required
The components of th	his product are reported in the following inventories:
United States TSCA In On TSCA Inventory	nventory :
	Substances List (DSL) : product are on the Canadian DSL.
	compliance with the inventory.
	ry of Chemicals (NZIoC), as published by ERMA New Zealand : compliance with the inventory.
	ng and New Chemical Substances Inventory : compliance with the inventory.
	ory of Chemical Substances (METI) : compliance with the inventory.
	g Chemicals Inventory (KECI) : compliance with the inventory.
<b>Philippines Inventory</b> On the inventory, or in c	of Chemicals and Chemical Substances (PICCS) : compliance with the inventory.
	xisting Chemical Substances : compliance with the inventory.
Section 16:	OTHER INFORMATION
Product AS SOLD	- HMIS III :
NFPA	
	HEALTH 1





#### Further information

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**KENVO** Technologies

Prepared by

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