# Industrial Oleochemical Products

# Material Safety Data Sheet

1. Identification of the sub	ostance or mixture and of the suppl	ier:			
Product name:	AR & BR Linseed oil ACR Linseed oil				
	<b>Boiled Linseed oil</b>				
Product identifier/synonyms:	Linseed oil, raw  Linseed oil, alkali-refined Linseed oil, acid-refined  Linseed oil, acid-refined				
Product description:	Extractives of flaxseed, linseed triglyceride oil				
Intended use:	Surface coatings, varnishes, timber treatment				
Manufacturer:	Industrial Oleochemical Products, (Pty) Ltd., 323 Chamberlain Road, Jacobs, 4052, KZN, South Africa Tel: +27-(0)31-4618680, Fax:: +27-(0)31-461-3743				
Emergency telephone number:	031-461-8721 (Monday-Friday 08.00 to 16.30hr) 031-461-8680 (after normal working hours) 082-852-5383 (medical emergencies)				

#### Hazard ratings Extreme 4 High Moderate 2 Low 1 Min/Nil 0 **Toxicity** Flammability Contact Reactivity Chronic

Revision: 04

CAEC

good chemistry

Date: 08/07/2014

#### 2. Hazard identification:

This substance is not classified according to South African National Standard SANS 10234:2007, Globally Harmonized System of classification and labelling of chemicals (GHS).

This substance is not classified in the Annex I of Directive 67/548/EEC according to ESIS (European Chemical Substances Information System).

Flammability:					
Hazard category Criteria Hazard communication elements					
0	Flash point (COC) 222°C	No pictogram required	No signal word required	No warning statement required	
	No precautionary statement	ts required			

3. Composition/information on ingredients:					
Substance/preparation:		Substance			
Ingredient name:	CAS no.	EC no.			ire limits
Linseed oil	8001-26-1	232-278-6	100	TLV (US) none assigned	TWA (US) none assigned
Cobalt drier (boiled linseed oil)	61789-51-3		<0.2		
Manganese drier (boiled linseed oil)	13434-24-7		<0.2		

4. First aid measures:	
Inhalation: hot vapours	Remove patient from exposure into fresh air. Keep person warm and at rest.  It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if symptoms occur. If unconscious, place in a recovery position and get medical attention immediately.
Ingestion:	NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.  Wash out mouth with water. Remove dentures, if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous.  Do not induce vomiting unless directed to do so by medical personnel, due to risk of aspiration.
Skin contact:	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes before reuse.
Eye contact:	Remove contact lenses, if any. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Obtain medical attention if irritation persists.



5. Fire fighting measu	ires:		
Extinguishing media: Unsuitable extinguishing media:	Water fog, foam, carbon dioxide, powder  Do not use water jet		
Special fire-fighting protective equipment:	A self-contained breathing apparatus and suitable protective clothing must be worn in fire conditions with full face piece operated in positive pressure mode		
Fire and explosion hazards:	Combustible, but not readily ignited		
Combustion products:	Thermal decomposition may produce fumes of carbon monoxide if burning		
Explosion data Sensitivity to mechanical impact: Sensitivity to static discharge:	No data available. However, experience suggests that the substance does not exhibit explosive properties.  Not to be expected  Not to be expected		

6. Accidental release	measures:
Personal precautions:	For small spills, good working practice suggests that safety goggles, and impervious gloves should be worn to protect eyes and skin.  Respiratory protection should not be necessary if adequate ventilation is maintained where hot vapours of this substance are present.  For large spills, no special personal protective equipment above that required for small spills is required.
Environmental precautions:	Avoid dispersal of spilt liquid and run-off and contact with soil, waterways, drains and sewers. Material is virtually insoluble in water and floats on water. No data is available for this substance to define it as an environmental hazard.
Clean up methods:	For small spills, add absorbent (soil may be used in the absence of any other materials). Scoop up material and place in a sealable container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Add absorbent (soil may be used in the absence of any other materials). Scoop up material and place in a sealable container for disposal. Do not absorb on to sawdust or other combustible materials. Wash the spillage area with water and detergent. The appropriate regulatory body must be alerted to spillages of uncontrolled discharges into watercourses.



7. Handling and storage:				
Handling:	Ensure the use of personal protective equipment (see Section 8) Handle and open container with care.			
	Keep away from heat and sources of ignition. The material is combustible but not classified as flammable. Wash thoroughly after handling.			
	Do not eat and drink or smoke while handling this material.			
Storage:	Store in original containers and keep containers tightly closed until ready for use. Store in a cool, dry, well-ventilated place. Note that storage under cool conditions may cause separation of natural waxes which may render the product slightly hazy			
Incompatible materials:	Do not store linseed oil products in contact with powdered materials or as oily rags, since spontaneous combustion may occur under certain conditions.			

Chemical name		Occupational	exposure	limit values:	
	Type of limit			Short-term exposure	
Linseed oil	TLV (US)	No workplace exposure limit assigned	-	No workplace exposure limit assigned	-
Engineering measures:		No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels.			
Eye protection:		Good working practice suggest that safety goggles be used			
Skin protection:		Impervious PVC gloves. overalls/dust coat be			
Respiratory protection:	Respiratory properties wentilation is	protection is not require maintained.	red if good		



9. Physical and che	mical properties:			
Appearance:	Clear amber to brown oily liquid @ 25°C			
Odour:	Characteristic, mild			
Odour threshold:	No data			
pH:	Not applicable			
Melting/freezing point:	-20°C			
Initial boiling point/range:	>250°C (decomposes)			
Flash point:	222°C (closed cup)			
Evaporation rate:	>1 (butyl acetate =1)			
Flammability:	No data available			
Flammable limits:	No data available. Explosive behaviour is not to be expected			
Vapour pressure:	<0.1 hPa (20°C)			
Vapour density:	No data available, suggested to be negligible			
Relative density:	0.93-0.96 (25°C)			
Solubility:	Insoluble in water. Soluble in many organic solvents			
Partition coefficient n-octanol/water:	No information available			
Autoignition temp:	No information available			
<b>Decomposition temp:</b>	>300°C			
Viscosity:	1-1000 mPa.s (25°C)			

10. Stability and reactivity:	
Stability:	Stable under normal ambient and anticipated storage and handling conditions.  No stabilizers are added or deemed necessary.
Conditions to avoid:	Excessive heating.
Hazardous reactions:	None known.
Materials to avoid:	Strong oxidizing/reducing agents.
Hazardous decomposition products:	Thermal decomposition will evolve irritant vapours, carbon monoxide and carbon dioxide.
Hazardous polymerization:	Will not occur



Acute toxicity:								
Hazard category	Criteria Hazard communication elements				Criteria	Hazard communicat		ion elements
Oral Not assigned	LD <sub>50</sub> oral No data available	No symbol required	No signal word required	No warning phrase required				
	No precautionary statemer	nts required		<u> </u>				
Dermal Not assigned	LD <sub>50</sub> dermal no data available	No symbol required	No signal word required	No warning phrase required				
	No precautionary statemer	nts required						
Inhalation Not assigned	LC <sub>50</sub> inhalation no data available	No symbol required	No signal word required	No warning phrase required				
	No precautionary statemer	nts required						
Skin corrosion/irrita	ation:							
Hazard category	Criteria	Ha	azard communica	tion elements				
Irritation 3 (mild irritant)	Animal test data indicate that the substance causes reversible skin damage	No symbol required	Warning	Causes mild skin irritation				
P332+P313	If skin irritation occurs, go	et medical advice	/attention					
Serious eye damage	/eye irritation:							
Hazard category	Criteria	Н	azard communica	tion elements				
Eye 2B (mild irritant)	Animal(rabbit) experience or test data indicate that the substance causes reversible eye damage	No symbol required	Warning	Causes eye irritation				
P264 P305+P351+P338 P337+P313	Wash eyes thoroughly af IF IN EYES, rinse caution present and easy to do. (If eye irritation persists, or	ously with water Continue rinsing.		es, remove contact lenses				



Respiratory sensiti	zer:				
Hazard category	Criteria	Н	azard communication	elements	
No information is available	No information is available	No symbol	No information	No information	
	No precautionary state	ments			
Skin sensitizer:					
Hazard category	Criteria	Criteria Hazard communication elements			
No information is available	No information is available	No symbol	No information	No information	
	No precautionary stater	ments			
Germ cell mutagen	icity:				
Hazard category	Criteria	H	lazard communicatio	n elements	
No information is available	No information is available	No symbol	No information	No information	
	No precautionary stater	No precautionary statements			
Carcinogenicity:	'				
Hazard category	Criteria	На	zard communication	elements	
No information is available	No information is available	No symbol	No information	No information	
	No precautionary state	ments			
Toxic to reproducti	on:				
Hazard category	Criteria	Ha	azard communication	elements	
No information is available	No information is available	No symbol	No information	No information	
	No precautionary statem	nents			
Specific target orga	an toxicity: single expo	sure			
Hazard category	Criteria	Н	azard communication	elements	
No information is available	No information is available	No symbol	No information	No information	
	No precautionary statem	ents			
Specific target orga	an toxicity: repeated ex	posure			
Hazard category	Criteria	ŀ	lazard communicatio	n elements	
No information is available	No information is available	No symbol	No information	No information	



Hazard category	Criteria	Hazard communication elements		
No information is available	No information is available	No symbol	No information	No information
	No precautionary statem	ents		
spiration hazard:				
Hazard category	Criteria	Hazard communication elements		
				No information
No information is available	No information is available	No symbol	No information	NO IIIIOITIIauoi

<b>Aquatic toxicity (act</b>	ute)				
Hazard category	Criteria	Hazard communication elements			
Not classified	96hr LC <sub>50</sub> (fish) ≤ 100 mg/L	No sym		No signal word required	No hazard statement required
	No precautionary statements				
Aquatic toxicity (chi	ronic)				
Hazard category	Criteria	Hazard communication elements			
No information is available	No information is available	No symbol N		No information	No information
	No precautionary statemen	nts			J
Persistence and degradability:	Туре	Concentration		ncentration	Degradation
	No information is available			-	The substance is expected to be substantially biodegradable
Bioaccumulative potential:	No information is available				
Mobility in soil:	No information is available				



13. Disposal considerations:		
Methods of disposal:	The generation of waste should be avoided or minimized wherever possible.  Avoid dispersal of spilled material or runoff and contact with soil, waterways, drains, and sewers.  Disposal of product should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.	
Contaminated packaging:	Empty containers retain product residue. Do not distribute, make available or reuse empty container except for storage and shipment of original product. Remove all product residue from container before disposal according to local regulations.	
Hazardous waste:	This material is not considered harmful to the aquatic environment.	

#### 14. Transport information:

#### Special precautions for user:

This product is not classified as hazardous goods according to SANAS 10228:2003

UN number	U.N. Proper shipping name	Transport hazard class	Packaging group	Environmental hazards	Special precautions
Not assigned	Not assigned	Not regulated	Not regulated	Not regulated	None required

15. Regulatory information:		
EU regulations:	Not classified (Directive 67/548/EEC).	
International regulations:		
United States (TSCA):	Listed TSCA 8(b): linseed oil	
Canada (DSL):	Listed CEPA DSL: linseed oil	
Australia AICS):	No information available	
WGK:	1	

16. Other information:			
This data sheet was prepared in accordance with the Globally Harmonized System of classification and labeling of chemicals (SANS 10234:2007)			
Date of preparation:	26 September 2011		
Date of next review:	08/7/2014		
Version:	04 ( no changes just a review)		
Compiled by:	S. Bande (Laboratory Manager)		



#### Notice to reader:

To the best of our knowledge of this substance and on current EC and international regulations, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries or agents assumes liability whatsoever for the accuracy or completeness of the information contained herein.

Revision: 04

#### **References:**

European Chemical Substances Information System (ESIS)

