

Dy-Mark

Chemwatch: 4783-92 Version No: 7.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 2

Issue Date: 10/08/2016

Print Date: 22/09/2016

S.GHS.AUS.EN

# SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### **Product Identifier**

Day have a			
Product name	Dy-Mark Paintstik Professional Set		
Synonyms	10084000		
Other means of identification	Not Available		
Relevant identified uses o	f the substance or mixture and uses advised against		
	Use according to manufacturer's directions.		
Relevant identified uses	Drying oils are characterized by high levels of fatty acids One common measure of the siccative (drying) property of oils is iodine number. Oils with an iodine number greater than 130 are considered drying, those with an iodine number of 115-130 are semi-drying oils and those with an iodine number of less than 115 are non-drying oils		
	The "drying", " hardening", or, more properly, "curing" of oils is the result of an exothermic reaction in the form of autoxidation Oxygen attacks the hydrocarbon chain, touching off a series of addition reactions. As a result, the oil, forms long, chain-like a vast polymer network molecules, resulting in a vast polymer network. Over time, this network may undergo further change. Paints for fine arts and crafts.		

# Details of the supplier of the safety data sheet

Registered company name	Dy-Mark
Address	89 Formation Street Wacol QLD 4076 Australia
Telephone	+61 7 3271 2222
Fax	+61 7 3271 2751
Website	Not Available
Email	info@dymark.com.au

# Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	+61 403 186 708
Other emergency telephone numbers	Not Available

### **SECTION 2 HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

# NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

# CHEMWATCH HAZARD RATINGS

Flammability	Min 1	Max	
Toxicity	0		0 = Minimum
Body Contact	2		1 = Low
Reactivity	1		2 = Moderate 3 = High
Chronic	0		4 = Extreme

Poisons Schedule	Not Applicable
Classification	Not Applicable
Label elements	
GHS label elements	Not Applicable
SIGNAL WORD	NOT APPLICABLE

Hazard statement(s)

Not Applicable

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention Not Applicable

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage Not Applicable

Precautionary statement(s) Disposal Not Applicable

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name	
8001-26-1	33-80	linseed oil	
	balance	Ingredients determined not to be hazardous	

# **SECTION 4 FIRST AID MEASURES**

# Description of first aid measures

Eye Contact	If this product comes in contact with eyes: <ul> <li>Wash out immediately with water.</li> <li>If irritation continues, seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# SECTION 5 FIREFIGHTING MEASURES

#### Extinguishing media

- Water spray or fog.
- Alcohol stable foam.
- Dry chemical powder.
- Carbon dioxide.

## Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result		
Advice for firefighters			
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> </ul>		
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>Combustion products include:carbon dioxide (CO2) acrolein, other pyrolysis products typical of burning organic materialMay emit poisonous fumes.May emit corrosive fumes.</li> </ul>		
HAZCHEM	Not Applicable		

# SECTION 6 ACCIDENTAL RELEASE MEASURES

See section 8

#### **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

Minor Spills	Slippery when spilt.  Clean up all spills immediately.  Avoid contact with skin and eyes.  Wear impervious gloves and safety goggles.  Trowel up/scrape up.
Major Spills	<ul> <li>Slippery when spilt.</li> <li>CARE: Absorbent materials wetted with occluded oil must be moistened with water as they may auto-oxidize, become self heating and ignite.</li> <li>Some oils slowly oxidise when spread in a film and oil on cloths, mops, absorbents may autoxidise and generate heat, smoulder, ignite and burn. In the workplace oily rags should be collected and immersed in water.</li> <li>Minor hazard.</li> <li>Clera area of personnel.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Control personal contact with the substance, by using protective equipment as required.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# SECTION 7 HANDLING AND STORAGE

#### Precautions for safe handling

Safe handling	<ul> <li>Rags wet / soaked with unsaturated hydrocarbons / drying oils may auto-oxidise; generate heat and, in-time, smoulder and ignite. This is especially the case where oil-soaked materials are folded, bunched, compressed, or piled together - this allows the heat to accumulate or even accelerate the reaction</li> <li>Oily cleaning rags should be collected regularly and immersed in water, or spread to dry in safe-place away from direct sunlight or stored, immersed, in solvents in suitably closed containers.</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul>			
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>			
onditions for safe stora	ge, including any incompatibilities			
Suitable container	Suitable container <ul> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>			
:	Materials soaked with plant/ vegetable derived (and rarely, animal) oils may undergo spontaneous combustion Many vegetable and animal oils absorb oxygen from the air to form oxidation products. This oxidation process produces heat and the resultant increase in			

temperature accelerates the oxidation process. Storage incompatibility Drying oils such as linseed, tung, poppy and sunflower oils and semi-drying oils such as soya bean, tall oil, corn, cotton and castor oils all absorb oxygen readily and thus experience the self-heating process.

- Cotton fibres are readily ignited and if contaminated with an oxidisable oil, may ignite unless heat can be dissipated
- Avoid reaction with oxidising agents



Х - Must not be stored together

0 - May be stored together with specific preventions

- May be stored together ÷

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control parameters**

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

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Not Available
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#### EMERGENCY LIMITS

Ingredient	Material name	TEEL-1		TEEL-2	TEEL-3
linseed oil	Polymerized linseed oil	6 mg/m3		66 mg/m3	400 mg/m3
linseed oil	Linseed oil	22 mg/m3		250 mg/m3	1500 mg/m3
Ingredient	Original IDLH		Revised	IDLH	
linseed oil	Not Available		Not Available		

#### **Exposure controls**

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.		
Personal protection			
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.</li> </ul>		
Skin protection	See Hand protection below		
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul>		
Body protection	See Other protection below		
Other protection	<ul> <li>Overalls.</li> <li>P.V.C. apron.</li> <li>Barrier cream.</li> </ul>		
Thermal hazards	Not Available		

#### **Respiratory protection**

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content. The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Appearance Coloured solid paint with an oil paint odour; not miscible with water. Paintstik Professional Set (all varieties and colours except Cadmium colours)

Physical state	Non Slump Paste	Relative density (Water = 1)	>1
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	66	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	204	Taste	Not Available
Evaporation rate	Not Applicable	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	VOC = 0
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available

## SECTION 10 STABILITY AND REACTIVITY

Reactivity See section 7

Chemical stability	Product is considered stable and hazardous polymerisation will not occur.		
Possibility of hazardous reactions	See section 7		
Conditions to avoid	See section 7		
Incompatible materials	See section 7		
Hazardous decomposition products	See section 5		
SECTION 11 TOXICOLOG	GICAL INFORMATION		
Information on toxicologic	cal effects		
Inhaled	Not normally a hazard due to non-volatile nature of product Inhalation of oil droplets or aerosols may cause discomfort and may produce che Fine mists generated from plant/ vegetable (or more rarely from animal) oils ma may generate breakdown products which include acrolein and acrolein-like subs	y be hazardous. Extreme heating for prolonged periods, at high temperatures,	
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.		
Skin Contact	There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. Open cuts, abraded or irritated skin should not be exposed to this material		
Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).		
Chronic	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Based on experience with similar materials, there is a possibility that exposure to the material may reduce fertility in humans at levels which do not cause other toxic effects. Based on experience with animal studies, there is a possibility that exposure to the material may result in toxic effects to the development of the foetus, at levels which do not cause significant toxic effects to the mother. Human and animal exposures to the phytooestrogens (for example, the isoflavones, some flavonoids, saponin, cournestans and lignans) can be high because these compounds are found in many foods. Although small amounts in the diet apparently protects against cancer, heart disease and osteoporosis, high levels over extended periods may produce toxic effects. Glyceryl triesters (triglycerides) undergo metabolism to become free fatty acids and glycerol. Animal studies show that there is no toxicity when given by mouth unless the material takes up a large proportion of energy intake. Common side effects of treatment with HIV-I protease inhibitors (PI) include diarrhoea, nausea, vomiting, gastrointestinal discomfort, headache, weakness, fatigue and taste disturbances. Renal stones are seen occasionally.		
		IRRITATION	
Dy-Mark Paintstik Professional Set	TOXICITY Not Available	Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
linseed oil	Oral (rat) LD50: >2000 mg/kg <sup>[2]</sup>	Skin (human):300 mg/3days-moderate	

Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value</li> </ol>	alue obtained from manufacturer's SDS.	Unless otherwise specified data
	extracted from RTECS - Register of Toxic Effect of chemical Substances		

LINSEED OIL	Group E aliphatic esters (polyol esters) are stable against oxidat refrigeration lubricants, hydraulic fluids, industrial oven chain oil may cause increase in kidney weight in the male rat but exhibits I For polyunsaturated fatty acids and oils (triglycerides) Studies on animals have shown a link between polyunsaturated fi with increasing intake of polyunsaturated fat, up to about 5% of to The propensity for polyunsaturated fats to oxidise is another pos Research evidence suggests that consuming high amounts of pr * Akzo Nobel SDS	is, high temperature greases, fire low acute/chronic effect with respe- at and the incidence of tumours. Ir stal energy, near to the middle of the sible risk factor. This leads to the	resistant transformer coolants and turbine engines. They act to reproduction and gene damage. In some of these studies the incidence of tumours increased he current dietary intake in humans. generation of free radicals and eventually to rancidity
Dy-Mark Paintstik Professional Set & LINSEED OIL	No significant acute toxicological data identified in literature sea	arch.	
Dy-Mark Paintstik Professional Set & LINSEED OIL	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.		
Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	0	Reproductivity	0
Serious Eye Damage/Irritation	0	STOT - Single Exposure	0
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	0
		- <b>S</b>	– Data available but does not fill the criteria for classification – Data required to make classification available – Data Not Available to make classification

# SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
linseed oil	LC50	96	Fish	>1mg/L	2
linseed oil	EC50	48	Crustacea	>0.8mg/L	2
linseed oil	EC50	72	Algae or other aquatic plants	>0.4-0.6mg/L	2
linseed oil	EC50	72	Algae or other aquatic plants	>0.4-0.6mg/L	2
linseed oil	NOEC	72	Algae or other aquatic plants	0.4-0.6mg/L	2
Legend:	Aquatic Toxicity Dat	,	IA Registered Substances - Ecotoxicological II latabase - Aquatic Toxicity Data 5. ECETOC A	1	

Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Substances containing unsaturated carbons are ubiquitous in indoor environments. They result from many sources (see below). Most are reactive with environmental ozone and many produce stable products which are thought to adversely affect human health. The potential for surfaces in an enclosed space to facilitate reactions should be considered. Source of unsaturated substances Unsaturated substances (Reactive Emissions) Major Stable Products produced following reaction with ozone.

For Unsaturated Vegetable Oils:

Environmental Fate: The application of vegetable oils for industrial purposes has been in practice for many years. These oils are often used in paints which upon drying produce a network formed of the constituent fatty acids. During the drying process, a number of compounds are produced that do not contribute to the polymer network, include unstable hydroperoxide, (ROOH). The hydroperoxides quickly decompose, forming carbon dioxide and water, as well as a variety of aldehydes, acids and hydrocarbons. DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
	No Data available for all ingredients
Mobility in soil	

Ingredient	Mobility
	No Data available for all ingredients

# SECTION 13 DISPOSAL CONSIDERATIONS

Vaste treatment methods	
Product / Packaging disposal	<ul> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Authority for disposal.</li> <li>Bury or incinerate residue at an approved site.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>

### **SECTION 14 TRANSPORT INFORMATION**

Labels Required	
Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

#### **SECTION 15 REGULATORY INFORMATION**

# Safety, health and environmental regulations / legislation specific for the substance or mixture

LINSEED OIL(8001-26-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y

Canada - NDSL	N (linseed oil)	
China - IECSC	Y	
Europe - EINEC / ELINCS / NLP	Υ	
Japan - ENCS	Y	
Korea - KECI	Y	
New Zealand - NZIoC	Y	
Philippines - PICCS	Y	
USA - TSCA	Y	
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)	

# **SECTION 16 OTHER INFORMATION**

## Other information

#### Ingredients with multiple cas numbers

Name	CAS No
linseed oil	8001-26-1, 67746-08-1, 66071-03-2

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors BEI: Biological Exposure Index

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Dy-Mark

Chemwatch: 4783-93 Version No: 6.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 4

Issue Date: 10/08/2016

Print Date: 22/09/2016

S.GHS.AUS.EN

# SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### **Product Identifier**

Product name	Dy-Mark Paintstik Professional Set
Synonyms	10084000
Other means of identification	Not Available
Relevant identified uses of the substance or mixture and uses advised against	
Relevant identified uses	Use according to manufacturer's directions.

# Paints for fine arts and craft.

# Details of the supplier of the safety data sheet

Registered company name	Dy-Mark
Address	89 Formation Street Wacol QLD 4076 Australia
Telephone	+61 7 3271 2222
Fax	+61 7 3271 2751
Website	Not Available
Email	info@dymark.com.au

## Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	+61 403 186 708
Other emergency telephone numbers	Not Available

### **SECTION 2 HAZARDS IDENTIFICATION**

# Classification of the substance or mixture

# HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

# CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	0	ļ	
Toxicity	4		0 = Minimum
Body Contact	2	1	1 = Low 2 = Moderate
Reactivity	1		3 = High
Chronic	3		4 = Extreme

Poisons Schedule	Not Applicable
Classification <sup>[1]</sup>	Acute Toxicity (Oral) Category 4, Acute Toxicity (Dermal) Category 4, Acute Toxicity (Inhalation) Category 1, Germ cell mutagenicity Category 2, Carcinogenicity Category 1B, Reproductive Toxicity Category 2, Specific target organ toxicity - repeated exposure Category 1
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

GHS label elements	
SIGNAL WORD	DANGER
Hazard statement(s)	
H302	Harmful if swallowed.

H312	Harmful in contact with skin.
H330	Fatal if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.

# Supplementary statement(s)

Not Applicable

# Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P281	Use personal protective equipment as required.

#### Precautionary statement(s) Response

F INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
IF exposed or concerned: Get medical advice/attention.	
Immediately call a POISON CENTER or doctor/physician.	
Wash contaminated clothing before reuse.	

# Precautionary statement(s) Storage

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

## Precautionary statement(s) Disposal

P501

Dispose of contents/container in accordance with local regulations.

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

# Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
8001-26-1	40	linseed oil
7440-43-9	13-15	cadmium

# SECTION 4 FIRST AID MEASURES

#### Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: <ul> <li>Immediately hold eyelids apart and flush the eye continuously with running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs: <ul> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul> </li> <li>In case of burns: <ul> <li>Immediately apply cold water to burn either by immersion or wrapping with saturated clean cloth.</li> <li>DO NOT remove or cut away clothing over burnt areas. DO NOT pull away clothing which has adhered to the skin as this can cause further injury.</li> <li>DO NOT break blister or remove solidified material.</li> <li>Quickly cover wound with dressing or clean cloth to help prevent infection and to ease pain.</li> <li>For large burns, sheets, towels or pillow slips are ideal; leave holes for eyes, nose and mouth.</li> <li>DO NOT apply ointments, oils, butter, etc. to a burn under any circumstances.</li> <li>Water may be given in small quantities if the person is conscious.</li> <li>Alcohol is not to be given under any circumstances.</li> <li>Reassure.</li> <li>Treat for shock by keeping the person warm and in a lying position.</li> <li>Seek medical aid and advise medical personnel in advance of the cause and extent of the injury and the estimated time of arrival of the patient.</li> </ul> </li> </ul>
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>

	► IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.
	▹ For advice, contact a Poisons Information Centre or a doctor.
	Urgent hospital treatment is likely to be needed.
	In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.
	If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.
Ingestion	If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.
	Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:
	INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
	NOTE: Wear a protective glove when inducing vomiting by mechanical means.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

- + High acute exposure, to cadmium, produces delayed pulmonary oedema progressing to interstitial fibrosis.
- For acute inhalations, initial presentation simulates metal fume fever (fever, headache, dyspnoea, pleuritic chest pain, conjunctivitis, rhinitis, sore throat, cough) developing 4-12 hours post-exposure. Respiratory failure may ensue in 3-10 days.
- For acute oral exposures, gastroenteritis results with sudden onset of vomiting, diarrhoea and abdominal pain.
- If vomiting is not prominent, use lpecac/lavage/catharsis in usual manner.
- · CaNa2EDTA is the chelator of choice for acute cadmium exposure. British Anti-Lewisite increases nephrotoxicity and therefore is not indicated

#### [Ellenhorn and Barceloux: Medical Toxicology]

#### COMMENTS on HUMAN TOXICITY:

- Between 10 and 50% of inhaled cadmium is adsorbed, the adsorption being greater for smaller particles and fumes; absorption through skin is negligible.

- The half-life of cadmium in the human body is thought to be about around 30 years and it has no known biological function.

#### Blood and urine cadmium concentrations may be determined.

Normal concentrations	Hazardous concentrations
Blood <27 nml/l (<3ug/l), non-smokers	>180 nmol/l (>20 uq/l)
<54 nmol/l (<6 ug/l), smokers	>100111101/1 (>20 ug/l)
Urine <18 nmol/l (<2 ug/l), non-smokers	
0.4-1.3 nmol/mmol creatinine	>180 nmol/l (>20 ug/l)
<45 nmol/l (<5 ug/l), smokers	>4-13 nmol/mmol creatinine
10-35 nmol/mmol creatinine	

#### **BIOLOGICAL EXPOSURE INDEX (BEI)**

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

Determinant	Sampling time	Index	Comments
Cadmium in urine	Not critical	5 ug/g creatinine	В
Cadmium in blood	Not critical	5 ug/L	В

B: Background levels occur in specimens collected from subjects NOT exposed

# SECTION 5 FIREFIGHTING MEASURES

# Extinguishing media

- Alcohol stable foam.
- Dry chemical powder.
- Carbon dioxide.
- Water spray or fog Large fires only.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility	► Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result	
Advice for firefighters		
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> </ul>	
Fire/Explosion Hazard	Combustible. Will burn if ignited. Combustion products include; carbon dioxide (CO2) acrolein, sulfur oxides (SOx) metal oxides other pyrolysis products typical of burning organic materialMay emit poisonous fumes. May emit corrosive fumes.	
HAZCHEM	Not Applicable	

## SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

# See section 12

#### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Slippery when spilt.</li> <li>Clean up all spills immediately.</li> <li>Avoid contact with skin and eyes.</li> <li>Wear impervious gloves and safety goggles.</li> <li>Trowel up/scrape up.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by all means available, spillage from entering drains or water courses.</li> <li>Slippery when spilt.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 HANDLING AND STORAGE

# Precautions for safe handling

	Rags wet / soaked with unsaturated hydrocarbons / drying oils may auto-oxidise; generate heat and, in-time, smoulder and ignite. This is especially the case where oil-soaked materials are folded, bunched, compressed, or piled together - this allows the heat to accumulate or even accelerate the reaction
Safe handling	<ul> <li>Oily cleaning rags should be collected regularly and immersed in water, or spread to dry in safe-place away from direct sunlight or stored, immersed, in solvents in suitably closed containers.</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>

#### Conditions for safe storage, including any incompatibilities

<ul> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Contact with high pressure oxygen may cause ignition / combustion.  Many metals may incandesce, react violently, ignite or react explosively upon addition of concentrated nitric acid. Materials soaked with plant/ vegetable derived (and rarely, animal) oils may undergo spontaneous combustion Many vegetable and animal oils absorb oxygen from the air to form oxidation products. This oxidation process produces heat and the resultant increase in temperature accelerates the oxidation process.
Drying oils such as linseed, tung, poppy and sunflower oils and semi-drying oils such as soya bean, tall oil, corn, cotton and castor oils all absorb oxygen readily and thus experience the self-heating process.
Cotton fibres are readily ignited and if contaminated with an oxidisable oil, may ignite unless heat can be dissipated <ul> <li>Reacts with acids producing flammable / explosive hydrogen (H2) gas</li> <li>Avoid reaction with oxidising agents</li> </ul>
<ul> <li>Finely divided metal powders develop pyrophoricity when a critical specific surface area is exceeded; this is ascribed to high heat of oxide formation on exposure to air.</li> <li>Safe handling is possible in relatively low concentrations of oxygen in an inert gas.</li> <li>Several pyrophoric metals, stored in glass bottles have ignited when the container is broken on impact. Storage of these materials moist and in metal</li> </ul>



X — Must not be stored together

• May be stored together with specific preventions

+ — May be stored together

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

# **Control parameters**

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

# INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	cadmium	Cadmium and compounds (as Cd)	0.01 mg/m3	Not Available	Not Available	Not Available

## EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
linseed oil	Polymerized linseed oil	6 mg/m3	66 mg/m3	400 mg/m3
linseed oil	Linseed oil	22 mg/m3	250 mg/m3	1500 mg/m3
cadmium	Cadmium	Not Available	Not Available	Not Available

Continued...

Ingredient	Original IDLH	Revised IDLH
linseed oil	Not Available	Not Available
cadmium	50 mg/m3 / 9 mg/m3	9 mg/m3 / 9 [Unch] mg/m3

#### **Exposure controls**

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.		
Personal protection			
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.</li> </ul>		
Skin protection	See Hand protection below		
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul>		
Body protection	See Other protection below		
Other protection	<ul> <li>Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent]</li> <li>Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type respirators with filters for dusts, mists and fumes, or air purifying canisters or cartridges. A respirator affording higher levels of protection may be substituted. [AS/NZS 1715 or national equivalent]</li> <li>Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with locations where direct exposure is likely.</li> <li>Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels. For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood.</li> <li>Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood.</li> <li>Overalls.</li> <li>PV.C. apron.</li> <li>Barrier cream.</li> </ul>		
Thermal hazards	Not Available		

#### **Respiratory protection**

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content. The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Appearance	Coloured solid paint with an oil paint odour; not miscible with water. Cadmium colours only		
Physical state	Non Slump Paste Relative density (Water = 1) >1		
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	66	Viscosity (cSt)	Not Available

Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	204	Taste	Not Available
Evaporation rate	Not Applicable	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	VOC = 0 g/l
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available

# SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# SECTION 11 TOXICOLOGICAL INFORMATION

# Information on toxicological effects

Inhaled	Inhalation of oil droplets or aerosols may cause discomfort and may produce chemical inflammation of the lungs. Fine mists generated from plant/ vegetable (or more rarely from animal) oils may be hazardous. Extreme heating for prolonged periods, at high temperatures, may generate breakdown products which include acrolein and acrolein-like substances. Inhalation of dusts, generated by the material, during the course of normal handling, may produce severely toxic effects; these may be fatal.			
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.			
Skin Contact	Skin contact with the material may be harmful; systemic effects may result following absorption. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. Open cuts, abraded or irritated skin should not be exposed to this material			
Eye	If applied to the eyes, this material causes severe eye damage. Pyro	ophoric compounds may produce thermal burns on contact with the eye.		
Chronic	Strong evidence exists that this substance may cause irreversible mutations (though not lethal) even following a single exposure. There is ample evidence that this material can be regarded as being able to cause cancer in humans based on experiments and other information. Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects. Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility. Based on experience with animal studies, exposure to the material may result in toxic effects to the development of the foetus, at levels which do not cause significant toxic effects to the mother. Laboratory (in vitro) and animal studies show, exposure to the material may result in a possible risk of irreversible effects, with the possibility of producing mutation. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Human and animal exposures to the phytooestrogens (for example, the isoflavones, some flavonoids, saponin, coursetans and lignans) can be high because these compounds are found in many foods. Although small amounts in the diet apparently protects against cancer, heart disease and osteoporosis, high levels over extended periods may produce toxic effects. Glyceryl triesters (triglycerides) undergo metabolism to become free fatty acids and glycerol. Animal studies show that there is no toxicity when given by mouth unless the material takes up a large proportion of energy intake.			
De Mark Deintetik	ΤΟΧΙCITY	IRRITATION		
Dy-Mark Paintstik Professional Set	Not Available	Not Available		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
linseed oil	Oral (rat) LD50: >2000 mg/kg <sup>[2]</sup>	Skin (human):300 mg/3days-moderate		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
	Inhalation (monkey) LC50: 0.03 mg/L15 min <sup>[1]</sup>	Nil reported		
	Inhalation (monkey) LC50: 0.0467 mg/L15 min <sup>[1]</sup>			
	Inhalation (monkey) LC50: 0.204 mg/L15 min <sup>[1]</sup>			
cadmium	Inhalation (monkey) LC50: 0.23 mg/L15 min <sup>[1]</sup>			
	Inhalation (monkey) LC50: 0.94 mg/L15 min <sup>[1]</sup>			
	Inhalation (mouse) LC50: >0.00902 mg/L15 min <sup>[1]</sup>			
	Inhalation (rabbit) LC50: >0.0224 mg/L15 min <sup>[1]</sup>			

	Inhalation (rat) LC50: 0.025 mg/L/30m <sup>[2]</sup>		
	Oral (rat) LD50: >63-<259 mg/kg> <sup>[1]</sup>		
Legend:	1. Value obtained from Europe ECHA Registered Substances extracted from RTECS - Register of Toxic Effect of chemical		rom manufacturer's SDS. Unless otherwise specified data
Dy-Mark Paintstik Professional Set	The material may produce severe irritation to the eye causing conjunctivitis.	pronounced inflammation. Repeated	d or prolonged exposure to irritants may produce
LINSEED OIL	Group E aliphatic esters (polyol esters) are stable against oxidation and elimination, and may be used as synthetic lubricants for motor oil, jet engines, refrigeration lubricants, hydraulic fluids, industrial oven chain oils, high temperature greases, fire resistant transformer coolants and turbine engines. They may cause increase in kidney weight in the male rat but exhibits low acute/chronic effect with respect to reproduction and gene damage. For polyunsaturated fatty acids and oils (triglycerides) Studies on animals have shown a link between polyunsaturated fat and the incidence of tumours. In some of these studies the incidence of tumours increased with increasing intake of polyunsaturated fat, up to about 5% of total energy, near to the middle of the current dietary intake in humans. The propensity for polyunsaturated fats to oxidise is another possible risk factor. This leads to the generation of free radicals and eventually to rancidity Research evidence suggests that consuming high amounts of polyunsaturated fat may increase the risk of cancer spreading. * Akzo Nobel SDS		
Dy-Mark Paintstik Professional Set & LINSEED OIL	No significant acute toxicological data identified in literature search.		
Dy-Mark Paintstik Professional Set & LINSEED OIL	The material may cause skin irritation after prolonged or repea scaling and thickening of the skin.	ated exposure and may produce on	contact skin redness, swelling, the production of vesicles,
Acute Toxicity	<b>✓</b>	Carcinogenicity	✓
Skin Irritation/Corrosion	0	Reproductivity	✓
Serious Eye Damage/Irritation	$\otimes$	STOT - Single Exposure	$\otimes$
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	*
Mutagenicity	✓	Aspiration Hazard	0
			<ul> <li>Data available but does not fill the criteria for classificatio</li> <li>Data required to make classification available</li> <li>Data Not Available to make classification</li> </ul>

#### **SECTION 12 ECOLOGICAL INFORMATION**

#### Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
linseed oil	LC50	96	Fish	>1mg/L	2
linseed oil	EC50	48	Crustacea	>0.8mg/L	2
linseed oil	EC50	72	Algae or other aquatic plants	>0.4-0.6mg/L	2
linseed oil	EC50	72	Algae or other aquatic plants	>0.4-0.6mg/L	2
linseed oil	NOEC	72	Algae or other aquatic plants	0.4-0.6mg/L	2
cadmium	LC50	96	Fish	0.001mg/L	4
cadmium	EC50	48	Crustacea	0.0033mg/L	5
cadmium	EC50	72	Algae or other aquatic plants	0.018mg/L	2
cadmium	BCF	960	Fish	500mg/L	4
cadmium	EC50	336	Crustacea	0.00065mg/L	5
cadmium	NOEC	168	Fish	0.00001821mg/L	4
	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12			EPIWIN Suite V3.12 -	

Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) -Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites. For Metal:

Atmospheric Fate - Metal-containing inorganic substances generally have negligible vapour pressure and are not expected to partition to air.

Environmental Fate: Environmental processes, such as oxidation, the presence of acids or bases and microbiological processes, may transform insoluble metals to more soluble ionic forms. Environmental processes may enhance bioavailability and may also be important in changing solubilities.

Aquatic/Terrestrial Fate: When released to dry soil, most metals will exhibit limited mobility and remain in the upper layer; some will leach locally into ground water and/ or surface water ecosystems when soaked by rain or melt ice. A metal ion is considered infinitely persistent because it cannot degrade further.

For Cadmium:

Legend:

Environmental Fate: Soil Guidelines - Dutch Criteria: 0.8 mg/kg (target), 12 mg/kg (intervention); Air Quality Standards: <1-5 ng/m3 (rural areas), 10-20 ng/m3 (urban and industrial areas), WHO Guidelines; Drinking Water Standards: 5 ug/L. (UK max.); 3 ug/L. (WHO guideline).

Terrestrial Fate: Soil - In soils, pH, oxidation-reduction reactions, and formation of complexes are important factors affecting the mobility of cadmium.

**DO NOT** discharge into sewer or waterways.

	No Data available for all ingredients			
		No Data available for all ingredients		
Bioaccumulative potentia				
Ingredient	Bioaccumulation			
	No Data available for all ingredients	No Data available for all ingredients		
Mobility in soil				
Ingredient	Mobility			
	No Data available for all ingredients			

#### SECTION 13 DISPOSAL CONSIDERATIONS

#### Waste treatment methods

	Containers may still present a chemical hazard/ danger when empty.			
	Return to supplier for reuse/ recycling if possible.			
	Otherwise:			
	If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then			
	puncture containers, to prevent re-use, and bury at an authorised landfill.			
	Where possible retain label warnings and SDS and observe all notices pertaining to the product.			
Product / Packaging	DO NOT allow wash water from cleaning or process equipment to enter drains.			
disposal	It may be necessary to collect all wash water for treatment before disposal.			
	In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.			
	Where in doubt contact the responsible authority.			
	Recycle wherever possible or consult manufacturer for recycling options.			
	<ul> <li>Consult State Land Waste Authority for disposal.</li> </ul>			
	Bury or incinerate residue at an approved site.			
	<ul> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>			

## **SECTION 14 TRANSPORT INFORMATION**

#### Labels Required

Marine Pollutant	
HAZCHEM	Not Applicable

## Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

## Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

# SECTION 15 REGULATORY INFORMATION

# Safety, health and environmental regulations / legislation specific for the substance or mixture

# LINSEED OIL(8001-26-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

## CADMIUM(7440-43-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Hazardous Substances Information System - Consolidated Lists Australia Inventory of Chemical Substances (AICS) Australia Work Health and Safety Regulations 2011 - Hazardous chemicals (other than lead) requiring health monitoring International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (linseed oil; cadmium)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (cadmium)
Korea - KECI	Y

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# **Dy-Mark Paintstik Professional Set**

New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

# **SECTION 16 OTHER INFORMATION**

#### Other information

#### Ingredients with multiple cas numbers

Name	CAS No
linseed oil	8001-26-1, 67746-08-1, 66071-03-2

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chernwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### Definitions and abbreviations

 ${\sf PC-TWA: Permissible \ Concentration-Time \ Weighted \ Average}$ 

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

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