

TUFLITE PETG sheet

Chernwatch: 24-1507
Version No: 2.1.1.1
Material Safety Data Sheet according to NOHSC and ADG requirements

Chemwatch Hazard Alert Code: 2

Issue Date: 01/01/2013
Print Date: 29/07/2015
Initial Date: Not Available
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SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Other means of identification Not Available	Synonyms Tuffite PETG sheet	Product name TUFLITE PETG sheet

Relevant identified uses of the substance or mixture and uses advised against

Details of the manufacturer/importer

Website www.egrgroup.com	Web
Fax +61 7 3277 8054	
Telephone +61 7 3277 7999	Teleph
Address 84 Evans Road Salisbury 4107 Qld Australia	Add
me EGR	Registered company name EGR

Emergency telephone number

Association / Organisation Not Available	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. According to NOHSC Criteria, and ADG Code

CHEMWATCH HAZARD RATINGS

	V	n Max	
Flammability	0		
Toxicity	0		0 = Minimum
3ody Contact	2		1 = Low
Reactivity			2 = Migh
Chronic	0		4 = Extreme

1. Classified by Chemwatch: 2. Classification drawn from HSIS: 3. Classification drawn from EC Directive 1772/2008 - Appear VI	Leger
Risk Phrases Not Applicable	Risk Phras
Poisons Schedule Not Applicable	Poisons Schedu

Not Applicable

Relevant risk state

Not Applicable	Indication(s) of danger

SAFETY ADVICE

Not Applicable

Other hazards

May produce discomfort of the eyes*.

TUFLITE PETG sheet

Issue Date: 01/01/2013 Print Date: 29/07/2015

Substances

See section below for composition of Mixtures

Mixtures

25640-14-6		CAS No
NotSpec.		%[weight]
dimethyl terephthalate/ cyclohexanedimethanol/ eth. glycol	copolyester as	Name

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Ingestion	Inhalation	Skin Contact	Eye Contact
 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. 	 If furnes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. 	If skin or hair contact occurs: ► Flush skin and hair with running water (and soap if available). ► Seek medical attention in event of irritation.	If this product comes in contact with the eyes: Wash out immediately with fresh running water. It is the sum of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay, if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
 Use extinguishing media suitable for surrounding area.

Fire Incompatibility A	ity Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine at a significant may result
------------------------	--

	▶ Alert Fire Brigade and tell them location and nature of hazard.
Fire Fighting	▶ Wear breathing apparatus plus protective gloves in the event of a fire.
ú	 Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area.
	▶ The material is not readily combustible under normal conditions.
Fire/Explosion Hazard	 However, it will break down under fire conditions and the organic component may burn. Not considered to be a significant fire risk.
	▶ Heat may cause expansion or decomposition with violent rupture of containers.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

	Major Spills	Minor Spills
Personal Protective Equipment advice is contained in Section 8 of the MSDS.	Moderate hazard. ► CAUTION: Advise personnel in area. ► Alert Emergency Services and tell them location and nature of hazard. ► Control personal contact by wearing protective clothing.	 Clean up all spills immediately. Avoid breathing dust and contact with skin and eyes. Wear protective dothing, gloves, safely glasses and dust respirator. Use dry clean up procedures and avoid generating dust.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

· · · · · · · · · · · · · · · · · · ·	
	Avoid all personal contact, including inhalation.
Safe handling	▶ Wear protective clothing when risk of exposure occurs.
	Provint connectation in hollows and assessment
100000	Store in original containers.
Other information	★ Keep containers securely sealed.
Calci IIIIOIIIIauoii	▶ Store in a ∞ol, dry area protected from environmental extremes.

Store away from incompatible materials and foodstuff containers.

Conditions for safe storage, including any incompatibilities

Suitable container Plastic pail. Lined metal can, lined metal pail/ can

Packing as recommended by manufacturer Polyliner drum.

Storage incompatibility Avoid reaction with oxidising agents

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

EMERGENCY LIMITS

Ingredient	TUFLITE PETG sheet	ilidiedietit
Original IDLH	Not Available	wiaterial name
	Not Available	IELA
Revised IDLH	Not Available	TEEL-2
	Not Available	TEEL-3
	Original IDLH	ETG sheet Not Available Not Available Not Available Revised IDLH

MATERIAL DATA

Sensory initiants are chemicals that produce temporary and undesirable side-effects on the eyes, nose or throat. Historically occupational exposure standards for these initiants have been based on observation of workers' responses to various airborne concentrations. Present day expectations require that nearly every individual should be protected against even minor sensory imitation and exposure standards are established using uncertainty factors or safety factors of 5 to 10 or more. On occasion animal no-observable-effect-levels (NOEL) are used to determine these limits where human results are unavailable.

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.







Eye and face protection

Safety glasses with side shields.

Chemical goggles.

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.

protection See Hand protection below

Hands/feet protection The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior

to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final

See Other protection below Suitability and durability of glove type is dependent on usage

Other protection P.V.C. apron.Barrier cream. ▶ Overalls.

Body protection

Thermal hazards

Not Available

GLOVE SELECTION INDEX

Recommended material(s)

Glove selection is based on a modified presentation of the:
"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the generated selection:
TUFLITE PETG sheet Not Available

8.		
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	유	

* CPI - Chemwatch Performance Index

A: Best Selection
B: Satisfactory, may degrade after 4 hours continuous immersion
C: Poor to Dangerous Choice for other than short term immersion
NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation.

Where the glove is to be used on a short term, casual or infrequent basis, factors such as

Respiratory protection

Not Available

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1 Air-line*		PAPR-P1
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	1	P3	•
		Air-line*	•
100+ x ES	•	Air-line**	PAPR-P3

*- Negative pressure demand **- Continuous flow
A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen

Version No: 2.1.1.1

TUFLITE PETG sheet

Issue Date: 01/01/2013 Print Date: 29/07/2015

"feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

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)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

THE RESERVE THE PROPERTY OF TH				
12/	Kelative density (water = 1)	SOIL	i ilyalvai alaic	
		Solid	Physical state Colid	
	Appearance Solid sheet does not mix with water	Solid sneet	Appearance	
		0		

Vapour density (Air = 1)	Solubility in water (g/L)	Vapour pressure (kPa)	Lower Explosive Limit (%)	Upper Explosive Limit (%)	Flammability	Evaporation rate	Flash point (°C)	Initial boiling point and boiling range (°C)	Melting point / freezing point (°C)	pH (as supplied)	Odour threshold	Odour	Physical state
Not Available	Immiscible	Not Available	Not Applicable	Not Applicable	Not Available	Not Available	Not Available	100	Not Available	Not Available	Not Available	Not Available	Solid
VOC g/L	pH as a solution (1%)	Gas group	Volatile Component (%vol)	Surface Tension (dyn/cm or mN/m)	Oxidising properties	Explosive properties	Taste	Molecular weight (g/mol)	Viscosity (cSt)	Decomposition temperature	Auto-ignition temperature (°C)	Partition coefficient n-octanol / water	Relative density (Water = 1)
Not Available	Not Available	Not Available	Not Available	Not Applicable	Not Available	Not Available	Not Available	Not Applicable	Not Available	Not Available	454	Not Available	1.27

SECTION 10 STABILITY AND REACTIVITY

Reactivity	Reactivity See section 7
Chemical stability	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

Chronic	Ž.	Skin Contact	Ingestion	Inhaled
Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.	Limited evidence exists, or practical experience suggests, that the material may cause eye imitation in a substantial number of individuals and/or is expected to produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.	The material has NOT been classified by EC Directives or other classification systems as "narmful by ingestion". This is because of the lack of comborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health).	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Not Available	ТОХІСІТҮ
Not Available	IRRITATION
	Not Available

extracted from RTECS - Register of Toxic Effect of chemical Substances

DIMETHYL TEREPHTHALATE/
CYCLOHEXANEDIMETHANOL/
ETH. GLYCOL

NOEL (None) 11 days: None male rats 730 mg/kg/day * *** [Eastman]

Legend:

- Data required to make classification available
 - Data available but does not fill the criteria for classification
 - Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

NOT AVAILABLE

Ingredient	Endpoint	Test Duration	Effect	Value	Species	BCF
dimethyl terephthalate/ cyclohexanedimethanol/ eth. glycol	Not Available					

Persistence and degradability

No Data	Ingredient Bioaccu	Bioaccumulative potential	No Data	Ingredient Persiste
No Data available for all ingredients	Bioaccumulation		No Data available for all ingredients	Persistence: Water/Soil
			No Data available for all ingredients	Persistence: Air

Mobility No Data available for all ingredients	Mobility No Data available for all ingredients		Ingredient	Nobility in soil
ingredients	ingredients	No Data available for all	Mobility	
		ingredients		

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

- Product / Packaging disposal
- Recycle wherever possible.

 Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility.
- can be identified.

 Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or incineration in a licenced apparatus (after admixture with suitable combustible material)
- Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed

SECTION 14 TRANSPORT INFORMATION

Labels Required

abels Nedulled	
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

SECTION 15 REGULATORY INFORMATION

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

DIMETHYL TEREPHTHALATE/ CYCLOHEXANEDIMETHANOL/ ETH. GLYCOL(25640-14-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS Australia Inventory of Chemical Substances (AICS)

Australia - AICS	National Inventory
~	Status

Issue Date: 01/01/2013 Print Date: 29/07/2015

TUFLITE PETG sheet

Canada - DSL	~
Canada - NDSL	N (dimethyl terephthalate/ cyclohexanedimethanol/ eth. glycol)
China - IECSC	Υ
Europe - EINEC / ELINCS /	N (dimethyl terephthalate/ cyclohexanedimethanol/ eth. glycol)
Japan - ENCS	N (dimethyl terephthalate/ cyclohexanedimethanol/ eth. glycol)
Korea - KECI	Υ
New Zealand - NZIoC	Υ
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

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 (M)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.

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