

MATERIAL SAFETY DATA SHEET

STANDOX. A member of Du Pont Performance Coatings.
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Classified as hazardous according to criteria of NOHSC

- Harmful

R11	Highly Flammable	S7/9	Keep container tightly closed and in a well-Ventilated place
R20	Harmful by inhalation	S16	Keep away from sources of ignition – No smoking
R36/37	Irritating to eyes and respiratory system	S24/25	Avoid contact with skin and eyes
		S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
		S29	Do not empty into drains
		S33	Take precautionary measures against static Discharges

Contains: Toluene 25 – 50%; Methyl Ethyl Ketone 20 – 30%

IDENTIFICATION

Product Name	:	REGAL TOP GLOSS PLUS
Product Code	:	02021062
Other Names	:	--
UN Number	:	1263
Correct Shipping Name	:	PAINT
Dangerous Goods Class	:	3
Subsidiary Risk	:	None
Hazchem	:	3[Y]E
Packing Group	:	II
Poisons Schedule Number (AU)	:	S5
Poisons Schedule Number (NZ)	:	S3
Pack Size /Container Type	:	4 and 20 litres steel containers

Use

Recommended Uses	:	Paint clearcoat in the automotive refinish and industrial application.
Method of Application	:	The product is sprayed on the metal surface.

Physical Description/Properties

Specific Gravity (kg/l)	:	0.9 to 1.0	Boiling range (°C)*	:	56 to 134
Flash Point (closed cup)*	:	-10 °C	Vapour Pressure* @ 20 °C:	:	6.5kPa (approx.)
Flammability Limits* (%volume)	:	LEL: 1 UEL: 9	Vapour Density (air =1)	:	>1
Auto-ignition Temperature	:	208 °C (approx.)	% Volatiles	:	69 to 71
Solubility in water	:	Negligible	Evaporation Rate (ether=1):	:	Not available
Appearance/ Odour	:	Colourless to very pale straw coloured liquid with mixed petroleum and ketone odour.			

* Properties relate to solvents in the mixture - Toluene and Methyl ethyl ketone.

Other Properties

Solubility in organic solvents : Miscible with ketones, esters and most hydrocarbon solvents.
 Shock Sensitivity : Not sensitive Corrosiveness : Not corrosive
 Oxidising Properties : Not an oxidant Odour Threshold (ppm): Not available
 Reactivity : No reaction under normal circumstances.
 Product could react with strongly oxidising or reducing agents.

Ingredients

The hazardous/dangerous goods components of the product are:

Chemical Entity	CAS NUMBER	PROPORTION Weight /weight	TLV+ TWA	TLV+ STEL
Toluene	108-88-3	25- <50%	100 ppm	150 ppm
Methyl ethyl ketone	78-93-3	20- <30%	150 ppm	300 ppm
Butyl acetate	123-86-4	1- <10%	200 ppm	--
Acetone	67-64-1	1- <10%	500 ppm	1000 ppm
Xylene	1330-20-7	<1%	80 ppm	150 ppm
Propionyl oxypoly (oxyethylene) derivatives and 4-piperidyl sebacate derivatives	Mixture	<1%		

The product also contains polymeric resins and additives that are not classified as hazardous by NOHSC or the Standard for the Uniform Scheduling of Drugs and Poisons in Australia. They are not classified as hazardous either because:

- (1) the substance is not on the hazardous chemical lists published by the above authorities or
- (2) the toxicity data does not categorise it as hazardous or
- (3) the concentrations of the entities are below those required for them to be classified as hazardous.

+ TLV or Threshold Limit Value is the maximum exposure level of the chemical entity for which any individual may be subjected and is generally expressed as either the Time Weighted Average (TWA) for an 8 hour/day, 5days/week exposure period or as the Short Term Exposure Limit (STEL) for a 15 minute exposure period with at least 60 minutes interval between two Short term exposures.

The exposure limits stated above are recommended by the National Occupational Health and Safety Commission (NOHSC) and these limits should not be exceeded. When there are no exposure limits published by NOHSC the declared values are recommended values declared by the supplier and this is clearly stated above.

A Sk notification next to the TLV of the component suggests that the component can be absorbed through the skin.

All the chemical entities present in this formulation conform to the NICNAS legislation in Australia.

HEALTH HAZARD INFORMATION**Health Effects****Acute**

Swallowed : The product could be harmful and may cause headaches, dizziness, nausea, vomiting, irritation of the mucous membrane and gastro-intestinal disturbances if swallowed. Ingestion of larger quantities of solvent could result in an anaesthetical effect and cause unconsciousness. The main danger of swallowing the product would be the aspiration of the solvent and fumes into the lungs, which could lead, to chemical pneumonia.

Eye: On entering the eye the product will irritate the eye. Swelling of the eye and corneal damage is likely if the product is left in eye for some time.

Skin: On contact with the skin the product will cause the drying, de-fatting and reddening of the skin, the severity of which will depend on the amount of time the product is allowed to stay on the skin. The solvents in the product could be absorbed through the skin.

Inhaled: The product is harmful and irritating when inhaled due to the presence of Methyl ethyl ketone and Toluene. If solvent vapours from the product is inhaled at higher concentrations it can result in irritation of the respiratory tract and mucous membranes and depression of the Central Nervous System. Exposure to higher concentrations could result in unconsciousness.

Chronic

Repeated and prolonged liquid/ vapour contact to solvents-Toluene, Methyl ethyl ketone and butyl acetate in the product may cause skin dryness, eczema and dermatitis.

Recurrent overexposure to the solvents may also result in CNS disorders, respiratory tract and lung disturbances, liver and kidney damage and blood disorders.

Although the product could contain some additives [Propionyl oxypoly (oxyethylene)] derivatives and 4-piperidyl sebacate derivatives) that are skin sensitisers, the concentration at which these chemicals are present is well below their threshold values & therefore the chemicals are not expected to have any adverse effects on human health.

As with any industrial chemical, ingestion, inhalation of and contact with the product must be avoided via good industrial hygiene practices.

First Aid

Swallowed : If swallowed do NOT induce vomiting, give a glass of water, only if the patient is conscious, and contact a doctor or Poisons Information Centre (ph 13 1126 within Australia). If vomiting, place patients face downwards and below hip level in order to avoid vomit from entering lungs.

Eye: Remove contact lens and hold eyelids open. Flush patient's eyes with plenty of water for at least 15 minutes and contact a doctor.

Skin: Remove contaminated clothing, wipe product from skin using dry cotton cloth and flush skin thoroughly with plenty of soap and water. Launder contaminated clothing before reusing.

Inhalation: Remove patient to fresh air. Keep patient warm and comfortable Apply artificial respiration if necessary and contact a doctor or Poisons Information Centre (ph 13 1126 within Australia).

ADVICE TO DOCTOR

Treat symptomatically. Aspiration is a danger. If contents of the stomach have to be flushed out, experienced medical staff only should perform the procedure of gastric lavage with cuffed endo-tracheal tube to prevent further aspiration into lungs.

PRECAUTIONS FOR USE

Exposure Standards: No National Exposure Standard has been allocated for this product.

The exposure standards are usually expressed in terms of the TWA for the chemical. TWA is the time weighted average concentration of atmospheric contaminant to which nearly all workers may be repeatedly exposed, for a normal 8-hour work day and a 40 hour work week, year after year, without adverse effect. In Australia these values are published in the Exposure Standards for Atmospheric Contaminants in the Occupational Environment published by NOHSC.

The TWA and STEL values for chemical entities in this product have been declared on page 2 of this data sheet. The recommended TWA for this product is 80 ppm, total vapour in air. Maintain all vapour concentrations below this level and keep all concentrations of each entity below the established values.

STEL means a 15-minute TWA exposure that should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. The STEL values have been declared on page 2 of this data sheet.

Engineering Controls

Spray booth should be used when spraying of volumes greater than 200ml. The spray booth should be designed, constructed and maintained in accordance with AS/NZS 4114. Provide adequate ventilation through local exhaust and extraction. If these are not sufficient to maintain concentrations of particulate and solvent vapour below the exposure limits (TWA's^{1,2}), use suitable respiratory protection. Isocyanate containing paint must be used in a spray booth and isolated from personnel without appropriate personal protection.

Personal Protection

Respiratory protection:

If workers are exposed to concentrations above the exposure limit they must use appropriate, respirators certified for organic vapours and conforming to AS1715/1716 to avoid inhalation of solvent vapours and fine particles.

Hand protection:

For handling, use solvent impermeable gloves conforming to AS2161.

Barrier creams should not be relied upon to protect against exposure and hands should be washed immediately after using the product.

Eye protection:

Use safety goggles or face-shields designed to protect against splash of liquids that have been selected and fitted in accordance with AS1336 and complying with AS/NZS 1337.

Skin protection:

Personnel should wear impervious anti-static clothing conforming to AS2919 and AS3765.1.

(1) Eight hours Time Weighted Average

(2) Short Term Exposure Limits

Flammability

The product is a Class 3, PG II, flammable liquid with a flash point of -10°C. Vapour/air mixtures may ignite explosively and flashback along the vapour trail could occur.

Keep away from all sources of ignition, direct sunlight, flames, hot surfaces, electrical, static, or frictional sparks. Containers should be earthed during pouring or mixing. Do not allow smoking near the container of the product.

SAFE HANDLING INFORMATION

Storage and Transport

Correct Shipping Name: Paint

UN No: 1263

The product is a Class 3 (HIGHLYFLAMMABLE LIQUID), PG II dangerous good with a Hazchem of 3[Y]E and must be stored and transported accordingly.

Keep containers tightly closed in a well-ventilated area, away from all sources of ignition & direct sunlight.

The product is flammable and must be stored in a dangerous goods store complying with Commonwealth, State and local regulations. Store in compliance with the regulations for storage of flammable liquids and the Australian Standard for the Storage of Flammable and Combustible Liquids (AS1940).

Crash repair shops and distributor stores must comply with The Australian New Zealand Standard " The storage and handling of mixed classes of dangerous goods in packages and intermediate bulk containers" (AS/NZS 3833:1998).

Transport within Australia must be in accordance with the Australian Dangerous Goods Code (6th Edition).

Do not load on the same vehicle as Classes 2.1(bulk), 2.3, 4.2, 5.1, 5.2 or 7 Dangerous Goods.

Spills and Disposal

Wear personal protection recommended in PERSONAL PROTECTION subsection, when cleaning spill. Keep all unprotected personnel and people away. Remove all sources of ignition. Shut off source of spill if safely possible- avoid becoming a casualty. Avoid breathing vapours. Ventilate the area. In enclosed areas, use SCBA or supplied air breathing apparatus. Contain and absorb spilt material on earth/sand or any other approved non-reactive absorbent and transfer adsorbed material, with non-sparking equipment, into marked sealable drums for disposal.

Seal, mark and label all drums for hazard - FLAMMABILITY and other HAZARDOUS properties.

Prevent product from entering drains, sewers and waterways.

For disposal of product and absorbed spill material contact the State Waste Disposal Authorities, inform them of the nature of the material and make arrangements for disposal according to local,

state and federal regulations.

Do NOT dispose of wet product or cans containing wet product to garbage bins, landfills or into recycling bins.

Solvent recycling or incineration at an appropriately licensed waste disposal facility must dispose of wet product.

Empty cans of the product may be dried thoroughly and sent for recycling if such recycling schemes exist within your area. Contact local authorities, e.g. your local council or the local Environmental Protection Authority for approvals or information on the availability of such schemes within your area.

Fire/Explosion Hazard

The product is a Class 3 (FLAMMABLE LIQUID), Packing Group II, Dangerous Good with a Hazchem of 3[Y]E. Vapour/air mixtures may ignite explosively and flashback along the vapour trail could occur.

On burning the product produces dense black smoke, oxides of carbon and hydrocarbons.

Cool closed containers exposed to fire with water spray.

Keep away from oxidising agents, strong acids or alkaline solutions in order to prevent exothermic reactions.

Fire Fighting Instructions:

Fire fighters should wear breathing apparatus and full protective gear.

Fight fires with alcohol resistant foam, carbon dioxide or dry powder.

Do not use water jets.

Prevent water / chemicals used to fight fire from entering drains or watercourses.

CONTACT POINT

Technical Service Manager or Supervisor

Working Hours call (02) 9627 4422

This Material Safety Data Sheet has been prepared according to guidelines recommended by the National Occupational Health and Safety Commission in the National Code of Practice for the Preparation of Material Safety Data Sheets [Document NOHSC: 2011 (1994)].

STANDOX Australia informs its users that:

This information is presented in good faith and compiled from various sources believed to be accurate on knowledge and experience, available on the day of publication of this Material Safety Data Sheet.

All data herein is to describe products only in terms of health and safety requirements and should not therefore be construed as guaranteeing any specific physical or qualitative properties. The users' working conditions are beyond our knowledge and control and therefore this data sheet does not serve as any warranty or guarantee for safe use of this product.

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