

## HEALTH AND SAFETY INFORMATION Ronadeck Fast Grip Seal Coat UV

### 1. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME no.	CAS no.	INECS no.	CONTENTS	CLASSIFICATION	RISK
Isophorone di-isocyanate 52/53	4098-71-9	23-861-6	< 3%	T	23, 42/43
Xylene (mixture of isomers)	1330-20-7	215-535-7	> 20%	Xn	10, 20/21, 38
See section 15					

### 2. HAZARDS IDENTIFICATION

Flammable  
Toxic by inhalation  
May cause Sensitisation by inhalation and skin contact  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

### 3. FIRST AID MEASURES

GENERAL: NOTE! Effects may be delayed. Keep affected person under observation.

INHALATION: Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep the affected warm and at rest. Get prompt medical attention.

INGESTION: DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention.

SKIN: Remove affected persons from source of contamination. Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention if irritant persists after washing.

EYES: Promptly wash eyes with plenty of water while lifting the eyelids. Get medical attention immediately. Continue to rinse.

### 4. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Powder, foam or CO<sup>2</sup>. Larger fires: Water spray, fog or mist.

**SPECIAL FIRE FIGHTING PROCEDURES:**

Keep run off water out of sewers and water source. Dike for water control. Move container from fire area if it can be done without risk.

If risk of water pollution occurs, notify appropriate authorities. Keep up wind to avoid fumes.

**UNUSUAL FIRE & EXPLOSION HAZARDS:**

May develop highly toxic or corrosive fumes if heated.

**5. ACCIDENTAL RELEASE MEASURES**

**SPELL CLEANUP METHODS:** DO NOT touch spilled materials. Shovel into dry containers.  
Cover and move containers. Flush the area with water. Collect with absorbent, non-combustible material into containers. Wet mop or vacuum. Provide ventilation and confine spill. Do not allow to runoff to sewer.

**6. HANDLING AND STORAGE**

**USAGE PRECAUTIONS:** Avoid spilling, skin and eye contact. Ventilate well avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Wear full protective clothing for prolonged exposure and / or high concentrations. Do not use contact lenses. Avoid contact with water, alcohols, amines and other materials that react with isocyanates.

**STORAGE PRECAUTIONS:** Keep away from heat, sparks and open flame. Store at moderate temperatures in dry well ventilated area. Isocyanates react with water to liberate carbon dioxide. Any ingress of moisture into an isocyanate container, whether full or empty, can lead to a pressure build up and subsequent explosion. Do not allow to freeze.

**7. EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENT NAME	CAS no.	STD	LT EXP (8HRS)	ST EXP (15MINS)
Isophorone di-isocyanate	4098-71-9	MEL	0.02mg/m <sup>3</sup>	0.07mg/m <sup>3</sup>
Xylene (mixture of isomers)	1330-20-7	OES	220mg/m <sup>3</sup>	441mg/m <sup>3</sup>

**INGREDIENT COMMENTS:**

OES = Occupational Exposure Standard. MEL = Maximum Exposure limit. Exposure limits for isocyanates are quoted as NCO.

**PROTECTIVE EQUIPMENT**

**VENTILATION:**

**RESPIRATORS:**

Provide adequate general and local exhaust ventilation. GENERAL RESPIRATORY PROTECTION. No specific recommendation made, but respiratory protection must be used if the general level exceeds the Occupational Exposure Level (OEL). Use chemical protection with appropriate cartridge filter.

PROTECTIVE GLOVES:	GENERAL GUIDANCE ON HAND PROTECTION. Chemical resistance gloves required for prolonged or repeated contact. Protective gloves must be used if there is a risk of direct contact or splash. SPECIFIC RECOMMENDATIONS. Use protective gloves made of Nitrile or Butyl rubber or polyvinyl chloride (PVC).
EYE PROTECTION:	Wear splash proof eye goggles to prevent any possibility of eye contact. Contact lenses should not be worn when working with this chemical!
OTHER PROTECTION:	Use engineering controls to reduce air contamination to permissible exposure level. Provide eye wash station and safety shower. Wear appropriate clothing to prevent any possibility of skin contact.
HYGIENIC WORK ROUTINES:	Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Change work clothing daily if contamination is reasonably probable. Promptly remove any clothing that becomes contaminated. Contaminated clothing to be placed in closed container until disposal or decontamination. Warn cleaning personnel of chemicals hazardous properties.

## 8. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid at 20 °C
COLOUR:	Colourless
ODOUR / TASTE:	Of xylene
SPECIFIC GRAVITY:	0.96 @ 25 °C
SOLUBILITY in water:	Immiscible
FLASH POINT:	24 ° C
VISCOSITY:	0.8 poise @ 25 °C

## 9. STABILITY AND REACTIVITY

STABILITY:	Normally stable. Avoid heat, sparks and flames.
CONDITIONS TO AVOID:	Do not freeze.
MATERIALS TO AVOID:	Bases, ammonia, primary and secondary amines, water and acids.
HAZARDOUS DECOMPOSITION PRODUCTS:	None expected under normal use conditions. Thermal decomposition can lead to release of irritating gases and vapours.

## 10. TOXICOLOGICAL INFORMATION

HEALTH WARNINGS:	This chemical can be hazardous when inhaled and / or touched. INHALATION: Prolonged inhalation of high concentration may damage respiratory system. Severe pulmonary irritant. Recognised allergen. SKIN CONTACT: Irritating to skin. EYE CONTACT: May cause severe irritation to eyes. May cause temporary blindness and severe eye damage. RESPIRATORY SYSTEM: Repeated exposure may cause chronic upper respiratory irritation, asthma, pulmonary sensitisation. DIGESTIVE AND INTERNAL SYSTEM: Swallowing concentrated chemical may cause severe internal injury.
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ROUTE OF ENTRY: Inhalation, Ingestion, Skin and / or eye contact.  
TARGET ORGANS: Respiratory system, lungs.  
MEDICAL SYMPTOMS: EYE AND MUCOUS MEMBRANES. Irritation, burning, lachrymation, blurred vision after liquid splash. Respiratory system. Severe pulmonary irritation. General respiratory distress, unproductive cough. Skin. Severe skin irritation. DIGESTIVE SYSTEM: Nausea, vomiting. Severe abdominal pain.  
MEDICAL CONSIDERATIONS: Skin disorders and allergies. Chronic respiratory and obstructive airway diseases. Employees ought to be examined by physician prior to work with di-isocyanates. Allergic reactions may develop after inhalation of low concentrations, also several hours after exposure. Regular medical checks, including lung function, are recommended for long term and repeated use of isocyanates.

#### 11. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: Dangerous for the environment if discharged into water courses.

#### 12. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Recover or recycle if possible. Otherwise dispose to licensed waste contractor.  
CONTAINER DISPOSAL: Drain container thoroughly. Rinse with decontaminated solution and allow unsealed drum to stand for 24 hours. After use, dispose of decontaminant to licensed disposal contractor. Send container to drum recoverer or metal reclaimer. Puncture to prevent re-use.

#### 14. TRANSPORT INFORMATION

ROAD :  
ADR/RID  
UN NO : 1992  
HAZARD CLASS (ADR) : 3  
PACKING GROUP : III  
PROPER SHIPPING NAME : FLAMMABLE LIQUID, TOXIC, N.O.S.

SEA TRANSPORT :  
IMDG  
UN NO. 1992  
HAZARD CLASS : 3  
PACKING GROUP : III  
PROPER SHIPPING NAME : FLAMMABLE LIQUID, TOXIC, N.O.S.

AIR TRANSPORT :  
ICAO/IATA  
UN NO. 1992  
HAZARD CLASS : 3  
PACKING GROUP : III  
PROPER SHIPPING NAME : FLAMMABLE LIQUID, TOXIC, N.O.S.

**15. REGULATORY INFORMATION**

LABEL FOR SUPPLY:	T – Toxic Xn - Harmful
	Flammable May cause sensitisation by inhalation and skin contact Contains isocyanates
RISK PHRASES:	R10 Flammable R23 Toxic by inhalation R42/43 May cause sensitisation by inhalation and skin contact R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
SAFETY PHRASES:	S23 Do not breath vapour / spray S25 Avoid contact with eyes S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S28 After contact with skin, wash immediately with plenty of soap and water S36/37 Wear suitable protective clothing and gloves S38 In case of insufficient ventilation wear suitable respiratory equipment S63 In case of accident by inhalation: remove casualty to fresh air and keep at rest S45 In case of accident or if you feel unwell seek medical advice immediately (show the label where possible) S61 Avoid release to the environment. Refer to special instructions/safety data sheets
APPLICABLE LEGISLATION:	Health & safety at work etc. Act 1974 Control of Substances Hazardous to Health Regulations, 1999 The chemicals (Hazard Information and Packaging for supply) Regulations 2002

**16. OTHER INFORMATION**

The information given here is to the best of our knowledge true and accurate and is provided solely for making safety assessments. It is not a sales specification or an indication of suitability for a particular use.