

# SAFETY DATA SHEET - REPEL IT

THE INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET IS BELIEVED TO BE ACCURATE ON THE DATE OF ISSUE AND IN ACCORDANCE WITH THE INFORMATION AVAILABLE TO US. PERSONS DEALING WITH PRODUCTS REFERRED TO IN THIS MATERIAL SAFETY DATA SHEET DO SO AT THEIR OWN RISK. WE ACCEPT NO LIABILITY WHATSOEVER FOR DAMAGE OR INJURY HOWEVER CAUSED ARISING FROM USE OF THIS INFORMATION OR OF SUGGESTIONS CONTAINED HEREIN.

## 1 - IDENTIFICATION

PRODUCT NAME: REPEL IT  
OTHER NAMES: NOT APPLICABLE  
PRODUCT CODE: RP  
PRODUCT TYPE: PROPANOL  
MAJOR INGREDIENTS: PROPANOL, SILANE/SILOXANE EMULSION  
PRODUCT USE: WATER AND STAIN REPELLENT.  
COMPANY DETAILS: SHALEX INDUSTRIES PTY LTD (ABN 81 168 216 064)  
ADDRESS: PO BOX 660 ARUNDEL DC QLD 4214  
TELEPHONE: 1300 720 535  
EMERGENCY TELEPHONE: 1300 720 535  
OTHER INFORMATION: USERS SHOULD VERIFY CURRENCY OF THIS DATA SHEET IF MORE THAN 3 YEARS OLD.

## 2 - HAZARD(S) IDENTIFICATION

HAZARDOUS NATURE: CLASSIFIED AS HAZARDOUS UNDER GHS FOR AUSTRALIA CRITERIA  
HAZARDOUS CLASSIFICATION: FLAMMABLE LIQUIDS: 3; ACUTE TOXICITY - ORAL: 3; ACUTE TOXICITY - INHALATION: 4; ACUTE TOXICITY - DERMAL: 4;  
ACUTE AQUATIC TOXICANT: 3  
HAZARDOUS STATEMENT: FLAMMABLE LIQUID AND VAPOUR  
GHS PICTOGRAMS



FLAMMABLE



HEALTH HAZARDS

HAZARD STATEMENTS:

H225: HIGHLY FLAMMABLE LIQUID AND VAPOUR  
H320: CAUSES EYE IRRITATION  
H336: MAY CAUSE DROWSINESS OR DIZZINESS

PRECAUTIONARY STATEMENTS:

P403: STORE IN A WELL VENTILATED PLACE  
P210: KEEP AWAY FROM HEAT, HOT SURFACES, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES. No SMOKING.  
P262: DO NOT GET IN EYES, OR SKIN, OR ON CLOTHING.  
P305+351+338: IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES IF PRESENT AND EASY TO DO - CONTINUE RINSING.  
P243: TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE.  
P370+378: IN CASE OF FIRE: USE SAND, EARTH, OR CHEMICAL FOAM TO EXTINGUISH.

DANGEROUS GOODS CLASSIFICATION:

3

POISONS SCHEDULE:

5

## 3 - COMPOSITION AND INFORMATION ON INGREDIENTS

CAS No:	NONE ALLOCATED		
CHEMICAL INGREDIENTS:	NAME	CAS	PROPORTION
	PROPAN-2-OL	67-63-0	70-95%
	SILANE / SILOXANE	PROPRIETARY	30-5%

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## 4 - FIRST AID MEASURES

FOR ADVICE, CONTACT POISONS INFORMATION CENTRE (AUSTRALIA PH.: 13 11 26) OR A DOCTOR.

INHALATION:	USING PROPER RESPIRATORY PROTECTION, IMMEDIATELY REMOVE THE AFFECTED VICTIM FROM EXPOSURE. ADMINISTER ARTIFICIAL RESPIRATION IF BREATHING IS STOPPED. KEEP AT REST. SEEK IMMEDIATE MEDICAL ATTENTION.
SKIN CONTACT:	FLUSH AREA WITH LARGE AMOUNTS OF WATER AND WASH AREA WITH SOAP IF AVAILABLE. REMOVE CONTAMINATED CLOTHING, INCLUDING SHOES, AND LAUNDRY BEFORE REUSE. SEEK MEDICAL ATTENTION FOR SKIN IRRITATIONS.
EYE CONTACT:	FLUSH EYES WITH LARGE AMOUNTS OF WATER UNTIL IRRITATION SUBSIDES. SEEK MEDICAL ATTENTION.
INGESTION:	IF SWALLOWED DO NOT INDUCE VOMITING. KEEP AT REST. SEEK MEDICAL ATTENTION.
FIRST AID FACILITIES:	PROVIDE EYE BATHS AND SAFETY SHOWERS.
MEDICAL ATTENTION:	TREAT SYMPTOMATICALLY. AVOID GASTRIC LAVAGE: RISK OF ASPIRATION OF PRODUCT TO THE LUNGS WITH THE POTENTIAL TO CAUSE CHEMICAL PNEUMONITIS.

## 5 - FIRE FIGHTING MEASURES

SHUT OFF PRODUCT THAT MAY "FUEL" A FIRE IF SAFE TO DO SO. ALLOW TRAINED PERSONNEL TO ATTEND A FIRE IN PROGRESS, PROVIDING FIREFIGHTERS WITH THE SAFETY DATA SHEET. PREVENT EXTINGUISHING MEDIA FROM ESCAPING TO DRAINS AND WATERWAYS.

HAZCHEM CODE:	2YE
EXTINGUISHING AGENTS:	WATER SPRAY, WATER FOG OR FINE MIST, ALCOHOL FOAM.
HAZARDS FROM COMBUSTION:	CARBON MONOXIDE AND CARBON DIOXIDE.
PRECAUTIONS:	FIRE-FIGHTERS SHOULD WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.

## 6 - ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES:	PREVENT FLUID FROM ESCAPING TO DRAINS AND WATERWAYS. CONTAIN LEAKING PACKAGING IN A CONTAINMENT DRUM. PREVENT VAPOURS FROM BUILDING UP IN CONFINED AREAS. ENSURE THAT DRAIN VALVES ARE CLOSED AT ALL TIMES. CLEAN UP AND REPORT SPILLS IMMEDIATELY.
MAJOR LAND SPILL:	ELIMINATE SOURCES OF IGNITION. WARN OCCUPANTS OF DOWNWIND AREAS OF POSSIBLE FIRE AND EXPLOSION HAZARD. PREVENT LIQUID FROM ENTERING SEWERS, WATERCOURSES OR LOW-LYING AREAS. KEEP THE PUBLIC AWAY FROM THE AREA. SHUT OFF THE SOURCE OF THE SPILL IF POSSIBLE TO DO SO. ADVISE AUTHORITIES IF SUBSTANCE HAS ENTERED A WATERCOURSE OR SEWER OR HAS CONTAMINATED SOIL OR VEGETATION. TAKE MEASURES TO MINIMISE THE EFFECT ON GROUND WATER. CONTAIN THE SPILL WITH SAND OR EARTH. RECOVER BY PUMPING USING AN EXPLOSION PROOF PUMP OR HAND PUMP, OR WITH A SUITABLE MATERIAL. CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO LOCAL DISPOSAL REGULATIONS. SEE "FIRST AID MEASURES" AND "STABILITY AND REACTIVITY"
MAJOR WATER SPILL:	ELIMINATE ANY SOURCES OF IGNITION. WARN OCCUPANTS AND SHIPPING IN DOWNWIND AREAS OF POSSIBLE FIRE AND EXPLOSION HAZARD. NOTIFY THE PORT OR RELEVANT AUTHORITY AND KEEP PUBLIC AWAY FROM THE AREA. SHUT OFF THE SOURCE OF THE SPILL IF SAFE TO DO SO. CONFINE THE SPILL IF POSSIBLE. REMOVE THE PRODUCT FROM THE SURFACE BY SKIMMING OR WITH A SUITABLE ABSORBENT MATERIAL. CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO LOCAL DISPOSAL REGULATIONS. SEE "FIRST AID MEASURES" AND "STABILITY AND REACTIVITY"

## 7 - HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	THIS PRODUCT IS FLAMMABLE. DO NOT OPEN NEAR OPEN FLAME, SOURCES OF HEAT OR IGNITION. NO SMOKING. KEEP CONTAINER CLOSED. HANDLE CONTAINERS WITH CARE. OPEN SLOWLY TO CONTROL POSSIBLE PRESSURE RELEASE. USE GROUNDING LEADS TO AVOID DISCHARGE (ELECTRICAL SPARK).
CONDITIONS FOR SAFE STORAGE:	STORE IN A COOL, DRY PLACE AWAY FROM DIRECT SUNLIGHT. DO NOT PRESSURISE, CUT, HEAT OR WELD CONTAINERS - RESIDUAL VAPOURS ARE FLAMMABLE. THIS PRODUCT IS FLAMMABLE AND WILL FUEL A FIRE IN PROGRESS.
INCOMPATIBLE MATERIALS:	NATURAL RUBBER, BUTYL RUBBER, EPDM, POLYSTYRENE.

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## 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

### NATIONAL EXPOSURE STANDARDS:

NAME	STEL		TWA	
	MG/M <sup>3</sup>	PPM	MG/M <sup>3</sup>	PPM
PROPAN-2-OL	1230	500	983	400

### BIOLOGICAL LIMIT:

NO DATA AVAILABLE

### OTHER EXPOSURE INFO:

AS PUBLISHED BY THE NATIONAL OCCUPATIONAL HEALTH AND SAFETY COMMISSION (NOHSC):

**TWA** – THE TIME-WEIGHTED AVERAGE AIRBORNE CONCENTRATION OVER AN EIGHT-HOUR WORKING DAY, FOR A FIVE-DAY WORKING WEEK OVER AN ENTIRE WORKING LIFE.

**STEL (SHORT TERM EXPOSURE LIMIT)** – THE AVERAGE AIRBORNE CONCENTRATION OVER A 15 MINUTE PERIOD WHICH SHOULD NOT BE EXCEEDED AT ANY TIME DURING AN EIGHT HOUR WORK DAY.

### ENGINEERING CONTROLS:

THE USE OF LOCAL EXHAUST VENTILATION IS RECOMMENDED TO CONTROL PROCESS EMISSIONS NEAR THE SOURCE. LABORATORY SAMPLES SHOULD BE HANDLED IN A FUME HOOD. PROVIDE MECHANICAL VENTILATION OF CONFINED SPACES. USE EXPLOSION-PROOF VENTILATION EQUIPMENT.

### PERSONAL PROTECTION

#### RESPIRATORY PROTECTION:

WHERE CONCENTRATIONS IN AIR MAY EXCEED THE LIMITS DESCRIBED IN THE NATIONAL EXPOSURE STANDARDS, IT IS RECOMMENDED TO USE A HALF-FACE FILTER MASK TO PROTECT FROM OVEREXPOSURE BY INHALATION. A TYPE "A" FILTER MATERIAL IS CONSIDERED SUITABLE.

#### EYE PROTECTION:

ALWAYS USE SAFETY GLASSES OR A FACE SHIELD WHEN HANDLING THIS PRODUCT.

#### SKIN / BODY PROTECTION:

ALWAYS WEAR LONG SLEEVES AND LONG TROUSERS OR OVERALLS, AND ENCLOSED FOOTWEAR OR SAFETY BOOTS WHEN HANDLING THIS PRODUCT. IT IS RECOMMENDED THAT CHEMICAL RESISTANT GLOVES (E.G. PVC) BE WORN WHEN HANDLING THIS PRODUCT.

## 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	CLEAR COLOURLESS LIQUID
ODOUR:	STRONG ALCOHOLIC ODOUR
SPECIFIC GRAVITY:	.80
pH VALUE:	NOT AVAILABLE
VISCOSITY:	10 – 20 cPs @ 25 DEGREES C
FLASH POINT:	12°C - 13°C
BOILING POINT / RANGE:	82°C
SOLUBILITY IN WATER:	PARTLY MISCIBLE
VOLATILE COMPONENT:	100%
AUTO IGNITION TEMP.:	> 350°C
EXPLOSIVE LIMITS (LEL - UEL)	1.8% - 12%

## 10 - STABILITY AND REACTIVITY

STABILITY:	STABLE AT ROOM TEMPERATURE AND PRESSURE.
CONDITIONS TO AVOID:	SOURCES OF HEAT AND IGNITION, OPEN FLAMES.
HAZARDOUS DECOMPOSITION PRODUCTS:	CARBON DIOXIDE, CARBON MONOXIDE, ORGANIC COMPLEXES ON INCOMPLETE BURNING OR OXIDATION.
HAZARDOUS REACTIONS:	STORED MIXTURES WITH MEK PRODUCE EXPLOSIVE PEROXIDES. INCREASED RATE OF PEROXIDE FORMATION WITH ISOBUTANOL. PEROXIDE PRODUCTION SHARPLY DECREASES THE AUTOIGNITION TEMPERATURE. VIOLENT, EXPLOSIVE REACTIONS WITH METAL OXIDES, OXIDISING AGENTS, HALOGENATE
HAZARDOUS POLYMERISATION:	WILL NOT OCCUR.

## 11 - TOXICOLOGICAL INFORMATION

### ACUTE EFFECTS

**INHALATION:** THIS PRODUCT IS IRRITATING TO THE RESPIRATORY TRACT. IN HIGH DOSES, THIS PRODUCT HAS NARCOTIC EFFECTS. AT CONCENTRATIONS OF 400PPM OR HIGHER, THE PRODUCT MAY INDUCE A MILD NARCOSIS, WITH TRANSIENT EFFECTS. SEE INGESTION EFFECTS

**INGESTION:** THE SINGLE LETHAL DOSE FOR HUMANS IS APPROX. 250ML, HOWEVER 100ML CAN BE FATAL. SYMPTOMS OF OVEREXPOSURE INCLUDE: FLUSHING, PULSE RATE DECREASE, BLOOD PRESSURE LOWERING, ANAESTHESIA, NARCOSIS, HEADACHES, DIZZINESS, MENTAL DEPRESSION, HALLUCINATIONS, DISTORTED PERCEPTIONS, RESPIRATORY DEPRESSION, NAUSEA OR VOMITING, COMA.

**SKIN:** THIS PRODUCT IS IRRITATING TO THE SKIN WITH PROLONGED EXPOSURE. IT MAY RESULT IN DRYNESS AND CRACKING.

**EYE:** THIS PRODUCT IS IRRITATING TO THE EYES AND CAN CAUSE CORNEAL BURNS.

**CHRONIC EFFECTS:** A SLIGHT TOLERANCE TO THIS PRODUCT CAN BE ACQUIRED. THIS PRODUCT IS EASILY ABSORBED BY THE SKIN YIELDING A NARCOTIC ACTION. OVEREXPOSURE MAY NOT BE IMMEDIATELY DETERMINED FOR THOSE WHO HAVE BUILT A TOLERANCE. ABUSE OF THIS PRODUCT WILL BE HARMFUL. PEOPLE WITH PRE-EXISTING LIVER OR KIDNEY CONDITIONS MUST AVOID UNNECESSARY PRODUCT EXPOSURE (METABOLISES SIMILARLY TO ETHANOLS).

**OTHER HEALTH EFFECTS:** QUESTIONABLE CARCINOGEN. MUTATION DATA REPORTED. EXPERIMENTAL TERATOGENIC AND REPRODUCTIVE EFFECTS.

**TOXICITY DATA:** ORAL LD<sub>50</sub>: 2-PROPANOL: 5045 MG/KG (ORAL, RAT)

DERMAL TC<sub>L0</sub>: TD<sub>L0</sub>: 223 MG/KG (ORAL, HUMAN)

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## 12 - ECOLOGICAL INFORMATION

<u>ECOTOXICITY</u>	
AQUATIC TOXICITY	
FISH TOXICITY (RAINBOW TROUT, GOLDFISH, BLUEGILL):	LC <sub>50</sub> (96HR): BASED ON DATA FOR SIMILAR COMPONENT OR PREPARATION, THIS PRODUCT IS EXPECTED TO BE TOXIC TO AQUATIC ORGANISMS.
DAPHNIA MAGNA EC <sub>50</sub> (24HR):	NOT AVAILABLE
BLUE-GREEN ALGAE (TOXICITY THRESHOLD 7 - 8 DAYS):	NOT AVAILABLE
GREEN ALGAE (TOXICITY THRESHOLD 7 - 8 DAYS):	NOT AVAILABLE
PERSISTENCE / DEGRADABILITY:	VOLATILISES IN AIR.
MOBILITY:	THIS PRODUCT IS HIGHLY VOLATILE AND WILL RAPIDLY EVAPORATE TO THE AIR IF RELEASED INTO THE WATER.

## 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	EMPTY PACKAGING SHOULD BE TAKEN FOR RECYCLING, RECOVERY OR DISPOSAL THROUGH A SUITABLY QUALIFIED OR LICENCED CONTRACTOR. CARE SHOULD BE TAKEN TO ENSURE COMPLIANCE WITH NATIONAL AND LOCAL AUTHORITIES. PACKAGING MAY STILL CONTAIN FUMES AND VAPOURS THAT ARE FLAMMABLE AND HARMFUL. ENSURE THAT EMPTY PACKAGING IS ALLOWED TO DRY.
SPECIAL PRECAUTIONS:	THIS PRODUCT IS <b>NOT</b> SUITABLE FOR DISPOSAL BY EITHER LANDFILL OR VIA MUNICIPAL SEWERS, DRAINS, NATURAL STREAMS OR RIVERS. THIS PRODUCT IS ASHLESS AND CAN BE BURNED DIRECTLY IN APPROPRIATE EQUIPMENT.

## 14 - TRANSPORT INFORMATION

Road and Rail Transport:	
UN No.:	1219
Proper Shipping Name:	Isopropyl Alcohol
DG Class:	3
Sub. Risk:	None
Packaging Group:	II
Hazchem:	2YE
Marine Transport:	
UN No.:	1219
Proper Shipping Name:	Isopropyl Alcohol
DG Class:	3
Sub. Risk:	None
Packaging Group:	II
Hazchem:	2YE
Air Transport:	
UN No.:	1866
Proper Shipping Name:	Isopropyl Alcohol
DG Class:	3
Sub. Risk:	None
Packaging Group:	II
Hazchem:	2YE
Special precautions during transport:	This product is classified as Dangerous Goods Class 3, packaging group II. Please consult the Australian Dangerous Goods Code for Transport by Road and Rail for information.

## 15 - REGULATORY INFORMATION

Country / Region:	Australia
Inventory:	AICS
Status:	Listed
Poisons Schedule Number:	5

## 16 - OTHER INFORMATION

Supersedes:	August 2015
Reason(s) For Issue:	Revised. Format change.

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END OF SAFETY DATA SHEET

This Safety Data Sheet summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Shalex Industries cannot anticipate or control the conditions under which the product may be used, therefore each user must, prior to usage, review this Safety Data Sheet in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company. Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.