

# SAFETY DATA SHEET - DRIVE

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: DRIVE  
OTHER NAMES: NOT APPLICABLE  
PRODUCT CODE: DR  
PRODUCT TYPE: ACRYLIC EMULSION  
MAJOR INGREDIENTS: XYLENE ACRYLIC-EMULSION  
PRODUCT USE: CONCRETE SURFACE COATING AND SEALER.  
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



CHRONIC HEALTH HAZARD



HEALTH HAZARDS



ENVIRONMENTAL

HAZARD STATEMENTS:

H226: FLAMMABLE LIQUID AND VAPOUR  
H315: CAUSES SKIN IRRITATION  
H333: MAY BE HARMFUL IF INHALED  
H320: CAUSES EYE IRRITATION  
H315: CAUSES SKIN IRRITATION  
H411: TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

PRECAUTIONARY STATEMENTS:

P102: KEEP OUT OF REACH OF CHILDREN  
P260: DO NOT BREATHE DUST / FUME / GAS / MIST / VAPOURS / SPRAY.  
P262: DO NOT GET IN EYES, OR SKIN, OR ON CLOTHING.  
P273: AVOID RELEASE TO THE ENVIRONMENT.  
P301+312+101: IF SWALLOWED: CALL A POISON CENTRE / DOCTOR, IF YOU FEEL UNWELL, AND HAVE A PRODUCT CONTAINER OR LABEL AT HAND.

DANGEROUS GOODS CLASSIFICATION:

3

POISONS SCHEDULE:

5

## 3 - COMPOSITION AND INFORMATION ON INGREDIENTS

CAS No:	NONE ALLOCATED		
CHEMICAL INGREDIENTS:	NAME	CAS	PROPORTION
	XYLENE	1330-20-7	30-60%
	SOLVENT NAPHTHA, PETROLEUM	64742-95-6	30-60%
	ACRYLIC POLYMER	PROPRIETY	10-30%

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## 4 - FIRST AID MEASURES

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

INHALATION:	REMOVE THE SOURCE OF CONTAMINATION OR MOVE THE VICTIM TO FRESH AIR. IF RAPID RECOVERY DOES NOT OCCUR. APPLY ARTIFICIAL RESPIRATION IF NOT BREATHING. SEEK MEDICAL ATTENTION.
SKIN CONTACT:	IF SKIN OR HAIR CONTACT OCCURS, REMOVE CONTAMINATED CLOTHING AND FLUSH SKIN AND HAIR WITH RUNNING WATER. ENSURE CONTAMINATED CLOTHING IS WASHED BEFORE RE-USE OR DISCARD. SEEK MEDICAL ATTENTION.
EYE CONTACT:	IF CONTACT WITH THE EYE(S) OCCUR, WASH WITH RUNNING WATER HOLDING EYELIDS(S) OPEN. TAKE CARE NOT TO RINSE CONTAMINATED WATER INTO THE NON-AFFECTED EYE. IN ALL CASES OF EYE CONTAMINATION IT IS A SENSIBLE PRECAUTION TO SEEK MEDICAL ADVICE.
INGESTION:	IF SWALLOWED DO NOT INDUCE VOMITING. WASH OUT MOUTH WITH WATER. 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:	3Y
EXTINGUISHING AGENTS:	ALCOHOL RESISTANT FOAM, OR IF UNAVAILABLE, DRY CHEMICAL OR FOAM.
HAZARDS FROM COMBUSTION:	CARBON MONOXIDE, CARBON DIOXIDE OTHER ORGANIC COMPOUNDS SOLID, LIQUID AND GAS.
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 LOWLYING 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:	OPEN CONTAINERS CAUTIOUSLY AS CONTENTS MAY BE UNDER PRESSURE. USE ONLY IN A WELL VENTILATED AREA. AVOID BREATHING OF OR CONTACT WITH MATERIAL. USE IN WELL VENTILATED AREAS. WASH THOROUGHLY AFTER HANDLING. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. HANDLE OPEN CONTAINERS IN WELL VENTILATED AREA. ENSURE THAT THE WORKPLACE IS VENTILATED SUCH THAT THE OCCUPATIONAL EXPOSURE LIMIT IS NOT EXCEEDED. DO NOT EMPTY INTO DRAINS. DO NOT EAT, DRINK OR SMOKE IN CONTAMINATED AREAS. BEFORE EATING, DRINKING OR SMOKING, REMOVE CONTAMINATED CLOTHING AND WASH HANDS.
CONDITIONS FOR SAFE STORAGE:	STORE IN A COOL, DRY WELL-VENTILATED AREA AWAY FROM SOURCES OF IGNITION, OXIDISING AGENTS. DO NOT STORE NEAR STRONG OXIDANTS.
INCOMPATIBLE MATERIALS:	NATURAL RUBBERS, NEOPRENE, BUTYL AND NITRILE RUBBERS.

## 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

NATIONAL EXPOSURE STANDARDS:

NAME	STEL		TWA	
	MG/M <sup>3</sup>	PPM	MG/M <sup>3</sup>	PPM
XYLENE	543	150	350	80

BIOLOGICAL LIMIT: BIOLOGICAL EXPOSURE INDEX - 1.5G/G CREATININE AT END OF SHIFT.

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: PROVIDE SUFFICIENT VENTILATION TO KEEP AIRBORNE LEVELS BELOW THE EXPOSURE LIMIT. WHERE VAPOURS OR MISTS ARE GENERATED, PARTICULARLY IN ENCLOSED AREAS, AND NATURAL VENTILATION IS INADEQUATE, A FLAMEPROOF EXHAUST VENTILATION SYSTEM IS REQUIRED.

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## 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION (CONT.)

### PERSONAL PROTECTION

RESPIRATORY PROTECTION:	IF ENGINEERING CONTROLS ARE NOT EFFECTIVE IN CONTROLLING AIRBORNE EXPOSURE THEN RESPIRATORY PROTECTIVE EQUIPMENT SHOULD BE USED FOR PROTECTING AGAINST AIRBORNE CONTAMINANTS. FINAL CHOICE OF APPROPRIATE BREATHING PROTECTION IS DEPENDENT UPON ACTUAL AIRBORNE CONCENTRATIONS AND THE TYPE OF BREATHING EQUIPMENT REQUIRED WILL VARY ACCORDING TO INDIVIDUAL CIRCUMSTANCES. EXPERT ADVICE MAY BE REQUIRED TO MAKE THIS DECISION.
EYE PROTECTION:	SAFETY GLASSES WITH SIDE SHIELDS OR FACE SHIELD AS APPROPRIATE RECOMMENDED. FINAL CHOICE OF APPROPRIATE EYE/FACE PROTECTION WILL VARY ACCORDING TO INDIVIDUAL CIRCUMSTANCES I.E. METHODS OF HANDLING OR ENGINEERING CONTROLS AND ACCORDING TO RISK ASSESSMENTS UNDERTAKEN.
HAND PROTECTION:	IMPERVIOUS GLOVES RECOMMENDED. FINAL CHOICE OF APPROPRIATE GLOVES WILL VARY ACCORDING TO INDIVIDUAL CIRCUMSTANCES I.E.. METHODS OF HANDLING OR ACCORDING TO RISK ASSESSMENTS UNDERTAKEN.
BODY PROTECTION:	WEAR APPROPRIATE CLOTHING INCLUDING CHEMICAL RESISTANT APRON WHERE CLOTHING IS LIKELY TO BE CONTAMINATED. IT IS ADVISABLE THAT A LOCAL SUPPLIER OR PERSONAL PROTECTIVE CLOTHING IS CONSULTED REGARDING THE CHOICE OF MATERIAL.

## 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	CLEAR COLOURLESS LIQUID
ODOUR:	PUNGENT SOLVENT ODOUR
SPECIFIC GRAVITY:	1.05 - 1.1
pH VALUE:	8.0 - 9.0
VISCOSITY:	Low
FLASH POINT:	23°C - 27°C
BOILING POINT / RANGE:	136°C - 145°C
SOLUBILITY IN WATER::	NOT MISCIBLE
VOLATILE COMPONENT:	74%
AUTO IGNITION TEMP.:	432°C - 530°C
EXPLOSIVE LIMITS (LEL - UEL)	1.0% - 7.1%

## 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:	MIXING WITH STRONG OXIDISING AGENTS CAUSES VIOLENT REACTIONS.
HAZARDOUS POLYMERISATION:	WILL NOT OCCUR.

## 11 - TOXICOLOGICAL INFORMATION

### ACUTE EFFECTS

INHALATION:	HARMFUL BY INHALATION. INHALATION OR PRODUCT VAPOURS WILL CAUSE IRRITATION TO THE NOSE, THROAT AND RESPIRATORY SYSTEM.
INGESTION:	HARMFUL - MAY CAUSE LUNG DAMAGE IF SWALLOWED. INGESTION OF THIS PRODUCT WILL IRRITATE THE GASTRIC TRACT CAUSING NAUSEA AND VOMITING. ASPIRATION INTO THE LUNGS MAY RESULT IN CHEMICAL PNEUMONITIS.
SKIN:	HARMFUL IN CONTACT WITH SKIN. IRRITATING TO SKIN INCLUDING REDNESS AND ITCHING.
EYE:	MAY CAUSE IRRITATION IN CONTACT WITH EYES. SYMPTOMS MAY INCLUDE REDNESS AND EXCESSIVE TEARING, STINGING AND SWELLING.
CHRONIC EFFECTS:	REPEATED OR PROLONGED EXPOSURE TO THIS PRODUCT CAN RESULT IN ACUTE EFFECTS BEING FELT WITH GREATER FREQUENCY AND SEVERITY. EFFECTS OF EXPOSURE MAY INCREASE IN INTENSITY WITH SUBSEQUENT USE.
OTHER HEALTH EFFECTS:	PERSONS WITH PRE-EXISTING LIVER, KIDNEY, CENTRAL NERVOUS SYSTEM OR SKIN COMPLAINTS SHOULD AVOID UNNECESSARY EXPOSURE TO THIS PRODUCT. EVERY EFFORT TO PROTECT EYES, RESPIRATORY TRACT AND SKIN EXPOSURE SHOULD BE TAKEN IN THESE CIRCUMSTANCES.
TOXICITY DATA:	ORAL LD <sub>50</sub> (RAT): 4300 MG/KG DERMAL TC <sub>LO</sub> : RAT (INHALE) LC <sub>50</sub> : 5000PPM/4HR

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## 12 - ECOLOGICAL INFORMATION

### ECOTOXICITY

#### AQUATIC TOXICITY

FISH TOXICITY (RAINBOW TROUT, GOLDFISH, BLUEGILL):

LC<sub>50</sub>(96HR): NO DATA AVAILABLE

DAPHNIA MAGNA EC<sub>50</sub> (24HR):

NO DATA AVAILABLE

BLUE-GREEN ALGAE (TOXICITY THRESHOLD 7 - 8 DAYS):

LO<sub>EC</sub>: >200000 µg/L

GREEN ALGAE (TOXICITY THRESHOLD 7 - 8 DAYS):

EC<sub>50</sub>: 72000µg/L

PERSISTENCE / DEGRADABILITY:

READILY BIODEGRADABLE. OXIDISES RAPIDLY BY PHOTO-CHEMICAL REACTIONS IN AIR.

MOBILITY:

IF PRODUCT ENTERS SOIL, IT WILL BE HIGHLY MOBILE AND MAY CONTAMINATE GROUNDWATER.

## 13 - DISPOSAL CONSIDERATIONS

### DISPOSAL METHODS:

FOR SMALL QUANTITIES:

DO NOT POUR LEFTOVER PRODUCT DOWN THE DRAIN. UNWANTED PRODUCT SHOULD BE BRUSHED OUT ON NEWSPAPER, OR Poured INTO SAND OR SOIL AND ALLOWED TO DRY AND THEN DISPOSED OF VIA DOMESTIC WASTE COLLECTION ONCE DRY. EMPTY CONTAINERS SHOULD BE LEFT OPEN IN A WELL VENTILATED AREA TO DRY OUT. WHEN DRY RECYCLE THE CONTAINER VIA LOCAL RECYCLING PROGRAMS WHERE AVAILABLE. DISPOSAL OF EMPTY CONTAINERS VIA DOMESTIC RECYCLING PROGRAMS MAY DIFFER BETWEEN LOCAL AUTHORITIES. CHECK WITH YOUR LOCAL AUTHORITY FIRST.

FOR LARGE QUANTITIES:

REFER TO WASTE MANAGEMENT AUTHORITY. DISPOSE OF MATERIAL THROUGH A LICENSED WASTE CONTRACTOR. NORMALLY SUITABLE FOR DISPOSAL AT APPROVED LAND WASTE SITE.

## 14 - TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT:

UN No.: 1866

PROPER SHIPPING NAME: RESIN SOLUTION, FLAMMABLE

DG CLASS: 3

SUB. RISK: NONE

PACKAGING GROUP: III

HAZCHEM: 3Y

### MARINE TRANSPORT:

UN No.: 1866

PROPER SHIPPING NAME: RESIN SOLUTION, FLAMMABLE

DG CLASS: 3

SUB. RISK: NONE

PACKAGING GROUP: III

HAZCHEM: 3Y

### AIR TRANSPORT:

UN No.: 1866

PROPER SHIPPING NAME: RESIN SOLUTION, FLAMMABLE

DG CLASS: 3

SUB. RISK: NONE

PACKAGING GROUP: III

HAZCHEM: 3Y

SPECIAL PRECAUTIONS DURING TRANSPORT:

THIS PRODUCT IS CLASSIFIED AS DANGEROUS GOODS CLASS 3, PACKAGING GROUP III. PLEASE CONSULT THE AUSTRALIAN DANGEROUS GOODS CODE FOR TRANSPORT BY ROAD AND RAIL FOR INFORMATION.

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## 15 - REGULATORY INFORMATION

COUNTRY / REGION:	AUSTRALIA
INVENTORY:	AICS
STATUS:	LISTED
POISONS SCHEDULE NUMBER:	5

## 16 - OTHER INFORMATION

SUPERSEDES:	DECEMBER 2016
REASON(S) FOR ISSUE:	REVISED

## END OF SAFETY DATA SHEET

THIS SDS 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 SDS 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.