



#### PRODUCT AND COMPANY IDENTIFICATION 1.

**Trade Name** Synonyms Description Dura Paints (PTY) Ltd

# DURA INDUSTRIAL WHITE SPIRIT, MINERAL TURPENTINE (DI006)

Solvent. Medium aromatic solvent 5 Wakefield Road; Founders View South; Edenvale; 1610; South Africa.

#### **COMPOSITION / INFORMATION ON INGREDIENTS** 2.

**Chemical Class** Classification Comment Hazardous and / or other relevant components

Moderately Hazardous Liquid Form

#### HAZARDOUS COMPONENTS Α.

- Petroleum Hydrocarbons such as Benzene
- NON HAZARDOUS COMPONENTS В.

R-PHRASES:

R11 - Highly Flammable R20/22 - Harmful by inhalation and if swallowed. R36/38 - Irritating to eyes and skin R45 - May cause cancer. R48/23/24/25 - Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

Chemical name	CAS-No.	Weight%
Medium Aliphatic Petroleum Solvent	64742-88-7	75.00 - 85.00
Heavy Aromatic Petroleum Solvent	64742-94-5	15.00 – 25.00
Benzene	71-43-2	< 0.10

#### **HAZARDS IDENTIFICATION** 3.

Emergency response data:

Colourless liquid. Flammable. Vapour accumulation could flash and / or explode if in contact with any ignition source. DOT ERG No. 128

### **GHS Classification:**

Health Acute inhalation toxicity Acute oral toxicity Skin irritation Eye irritation Aspiration	Hazard category 4 Hazard category 5 Hazard category2 Hazard category 2A Hazard category 1	Harmful if inhaled May be harmful if swallowed Irritant Irritant May cause chemical pneumonitis.	Warning Warning Warning Danger
Environmental			
Aquatic toxicity	Hazard category 2	Very toxic to fish, aquatic organisms and wildlife	Warning
Physical			
Flammability	Hazard category 3	Flammable liquid and vapour	Warning

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## Hazard Statements

Flammable liquid and vapour. May be fatal if swallowed and enters airways. Cause eye irritation. Causes skin irritation.

### Precautionary Statements

#### Prevention

Keep away from heat/sparks/open flames/hot surfaces - No smoking.

Response	
IN CASE OF FIRE:	Use carbon dioxide, foam or dry chemical for extinction.
IF INHALED:	Call a POISON CENTRE or doctor immediately.
IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical attention.
IF ON SKIN:	Immediately remove all contaminated clothing. Gently was skin with plenty of soap and water. Launder Contaminated clothing before re-use.
IF SWALLOWED:	Immediately call a POISON CENTRE or doctor.

### Storage

Store in a well-ventilated place and keep the container cool and tightly closed.

### Disposal

Do not discharge into lakes, streams, ponds and ground water supply.

See section 11 for further health effects/toxicological data.

## 4. FIRST AID MEASURE

Ingestion Skin	Seek immediate medical attention. Do not induce vomiting. Wash contact areas with soap and water. Remove contaminated clothing. Dry wipe exposed skin and cleanse with hand cleaner, soap and water. Launder contaminated clothing before reuse. (See Section16 – Injection Injury)
Inhalation	Remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with mechanical devise or use mouth-to-mouth resuscitation with a mouthpiece.
Eyes	Flush thoroughly with water. If irritation occurs call a doctor.
Note to doctors	Material if aspirated into the lungs may cause chemical pneumonitis. Treat appropriately.

## 5. FIRE FIGHTING MEASURES

Extinguishing Media: Special fire fighting procedure	Carbon dioxide, foam, dry chemical and water fog. Water spray should only be used to keep fire-exposed containers cool, flush spills away from exposures, disperse vapours and protect personnel attempting to stop leak. Prevent runoff from fire control or dilution from entering streams, municipal sewers, or drinking water supply.
Special protective equipment for	
fire fighters Unusual fire and explosive	For fires in enclosed areas, fire fighters must use Self-Contained Breathing Apparatus.
hazards	Flammable. Vapour accumulation could flash or explode if in contact with an open flame.
Products of decomposition	Fumes, smoke and carbon monoxide.
Flash Point	< 35°C (ASTM D-56)
Upper Explosion Limit (UEL)	6.5% (V)
Lower Explosion Limit (LEL)	0.6% (V)
NFPA Hazard ID	Health: 0; Flammability: 3; Reactivity: 0





# 6. ACCIDENTAL RELEASE MEASURES

Procedure if material is	
Released or spilled	Report spills/releases as required to appropriate authorities.
Methods for cleaning up	LAND SPILL: Shut off source taking normal safety precautions. Take measures to minimize the effects on ground water. Recover by shovelling up, or contain spilled material with sand or other suitable absorbent and remove mechanically into containers. If necessary, dispose of absorbed residues as directed in Section 13.
	WATER SPILL: Eliminate sources of ignition. Warn occupants and/or ships in the downwind areas of fire and explosion hazard, and warn them to stay clear. Consult an expert for the recovery and disposal of material according to local regulations.
Personal precautions	See Section 8.
Environmental precautions	Prevent spills from entering municipal sewers or drains and contact with soil.

# 7. HANDLING AND STORAGE

Safe handling advice:	Avoid prolonged skin contact. Avoid inhalation of vapours or mists. Use in a well ventilated area away
	from all ignition sources. Avoid sparking conditions. Ground and bond all transfer equipment.
Storage information:	Store away from all ignition sources in a cool, well ventilated area. This product is a static
	accumulator, therefore, all storage containers should be grounded and bonded. Drums should
	also be equipped with self-closing valves, pressure vacuum bungs and flame arresters. Do not store in
	open or unlabelled containers. Store away from strong oxidizing agents or combustible material.
Storage and handling procedures:	To minimize the risk of fire or explosion from discharges, static and/or vapour accumulation, effectively
	bond and ground product storage and transfer systems.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## **Occupational Exposure Limits (OELs)**

Components	CAS-No.	Source	TWA	Value		Notations
Heavy Aromatic Petroleum Solvent	64742-94-5	ACGIH TLV		525mg/m3	100 ppm	
LTEL:	Lon	g Term Exposure Lir	nits – Time weight A	werage (TWA) over 8 ho	ours.	
STEL:	Short Term Exposure Limits – Time Weight Average (TWA) over 15 Minutes					
Note: Personal Protective	Limits shown for guidance only. Follow applicable regulations. e Equipment (PPE)					
Engineering controls	Use in well ventilated area. Explosive-proof ventilation equipment with local exhaust is desirable.					
Respiratory protection	App	Approved respiratory equipment must be used when airborne concentrations are unknown or				
	exc	exceed the recommended exposure limit. Self-Contained Breathing Apparatus may be required for				
	use	in confined or enclo	sed spaces.			
Eye protection Skin and body protect	ion Imp	mal industrial eye pr ervious gloves must sonal hygiene practio	be worn. Good pers	sonal hygiene practices	should always b	e followed. Good





# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:LiquiOdour:SolvBoiling point:>140Upper Explosion Limit (UEL):6.5%Lower Explosion Limit (LEL):0.6%Viscosity, kinematic:< 3m</td>

Liquid Solvent >140°C 6.5% (V) 0.6% (V) < 3mm2/s @ 40°C (ASTM D-445)

Colour: Water solubility: Flash point: Vapour pressure: Density: Colourless Negligible >35°C (ASTM D-56) < 10 hPa 0.7870 g/cm3 @ 20°C (ASTM D-4052)

## **10. STABILITY AND REACTIVITY**

Stability: Hazardous thermal decomposition	Stable
products:	Fumes, smoke and carbon monoxide.
Materials to avoid:	Strong oxidizers.
Conditions to avoid	Heat, sparks, flame and build up of static electricity.

## **11. TOXICOLOGICAL INFORMATION**

(Rats): Practically non-toxic (LD50: greater than 2000mg/kg). Based on testing of similar Products and/or components. Warning Hazard category 5. Practically non-toxic, but when
swallowed can cause lung damage. (Rabbits): Practically non-toxic (LD50: greater than 2000 mg/kg). Based on testing of similar products and/or the components. Warning Hazard category 5. May be harmful in
contact with skin. (Rats): Harmful (LC50: greater than 10 but less than 20mg/l) 4 hours. Based on testing of similar products and/or the components. Warning Hazard category 4. Harmful if inhaled.
(Rabbits): Irritant. (Primary Irritation Index: greater than 3 but less than 6). Based on testing of similar products and/or the components. Warning Hazard category 2. Causes mild skin irritation.
(Rabbits): Mild irritant. (Draize score: greater than 6 but 15 or less). Based on testing of similar products and/or the components. Warning Hazard category 2A. Causes eye irritation.
This product was not a skin sensitizer when tested in a Modified Buehler Guinea Pig Sensitization Assay.
Certain straight-run middle distillates have been found to produce skin tumors in laboratory mouse skin-painting tests, but these have usually indicated that the irritation can produce tumours. Therefore, if the precautions outlined in this SDS are followed to minimize repeated or prolonged skin contact which could cause irritation, these oils should pose no carcinogenic hazard to humans.
No teratogenic effects would be expected from dermal exposure, based on laboratory development toxicity studies of major components in this formulation and/or of similar composition.
Respiratory irritation, dizziness, nausea and loss of consciousness.
Prolonged repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. Animal studies with similar materials by inhalation for 12 months showed no significant neurotoxic, blood, kidney or other effects.
Material if aspirated into the lungs may cause chemical pneumonitis. Warning Hazard Category 1.

## 12. TOXICOLOGICAL INFORMATION

## Ecotoxicity effects

Toxicity to aquatic organisms (Daphnia magna) LC/EC50: 6mg/l at 48 hours	Toxicity to fish Toxicity to aquatic organisms	(Salmon) LC/EC50: 8.1 mg/l at 96 hours (Daphnia magna) LC/EC50: 6mg/l at 48 hours. (Green algae) LC/EC50: 9.4 mg/l at 8 hours.
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## Elimination information (persistence and degradability)

Biodegradability

Not established.





Mobility Bioaccumulation Not established. Not established.

## Further information on ecology

Remarks

Toxic to fish, aquatic organisms and wildlife. Do not discharge into lakes, streams, ponds and ground water supply.

# **13. DISPOSAL CONSIDERATIONS**

Waste disposal	Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at any government approved waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and considerations of product characteristics at time of disposal.
Contaminated packaging	Empty containers retain residue (liquid and/or vapour) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.
Other regulations	Disposal of unused product may be subject to RCRA regulations (40 CFR 261). Disposal of the used product may also be regulated due to ignitability, corrosivity, reactivity, or toxicity as determined by the Toxicity Characteristics Leaching Procedure (TCLP).
Flash point	< 35 °C (ASTM D-56)

# 14. TRANSPORT INFORMATION

Static Accumulator (50 picosiemens or less):

## **15. REGULATORY INFORMATION**

Yes

US OSHA Hazard Communication Standard	Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined to be Hazardous.
Governmental Inventory Status	All components comply with TSCA, EINECS/ELINCS, AICS, METI, DSL, KECI, ENCS, PICCS and IECSC
EU Labelling	Product is dangerous as defined by the European Union Dangerous Substances/Preparations Directives
Symbols	F, Xn, X1 Flammable, Harmful
R-Phrase (S)	R10, R65, R38, R51/53 Flammable. Harmful: may cause lung damage if swallowed. Irritating to the skin. Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
S-Phrase (S)	S24,S36/37, S43, S62 Avoid contact with the skin. Wear suitable protective clothing and gloves. In case of fire use foam/dry powder/carbon dioxide. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Note	Contains straight-run Kerosene.

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## SARA

U.S. Superfund Amendments and Reauthorization Act SARA Title III This product contains no "EXTREMELY HAZARDOUS SUBSTANCES". SARA (311/312) Reportable Hazard Categories Fire Chronic

SARA (313) Toxic Release

Benzene (71-43-2) - Conc < 0.1%

Chemical Name	CAS-No.	Concentration [%]	List Citations
Medium Aliphatic Petroleum Solvent	64742-88-7	375.00 - 85.00	18, 19, 20, 21, 23, 25
Heavy Aromatic Petroleum Solvent	64742-94-5	15.00 – 25.00	1, 18, 19, 20, 21, 23, 25
Benzene	71-43-2	< 0.10	1, 2, 4, 6, 9, 10, 16, 17, 18, 19, 20, 21, 22,23, 24, 25,26

1 – ACGIH ALL	6 = IARC 1	11 = TSCA 4	17 = CA P65	22 = MI 293
2 = ACGIH A1	7 = IARC 2A	12 = TSCA 5a2	12 = CA RTK	23 = MN RTK
3 = ACGIH A2	8 = IARC 2B	13 = TSCA 5e	19 = FL RTK	24 = NJ RTK
4 = NTP CARC	9 = OSHA CARC	14 = TSCA 6	20 = IL RTK	25 = PA RTK
5 = NTP SUS	10 = OSHA Z	15 = TSCA 12b	21 = LA RTK	26 = RI RTK

Code Key: CARC = Carcinogen; SUS = Suspected Carcinogen

## 16. OTHER INFORMATION

INJECTION INJURY WARNING: If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a doctor as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extend of injury.

This data is offered in good faith as typical values and are not as a product specification. No warranty, whether expressed or implied is made. The recommended handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific content of the intended use.

# **END OF MSDS**

DISCLAIMER: All information is given in good faith, but without guarantee in respect of accuracy and no responsibility is accepted for errors or omissions or the consequences thereof. For the current version of this MSDS please download from the Dura Paints website at <u>www.durapaints.co.za</u>.