

SECTION 1: Identification

1.1. Product identifier

Product form	: Mixture
Trade name	: Warrior Bituminous Aluminium
Type of product	: Paint
Product code	: FAR140
Product group	: Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture	: COATING AND PAINTING
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1.3. Supplier's details

Manufacturer

Warrior Paints & Coatings
 45 Frans du Toit Street
 P.O. Box 911-1181
 0200 Rosslyn, Pretoria - South Africa
 T 12 5413596 - F +27 12 5411434
info@warriorpaints.co.za - www.warriorpaints.co.za

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Flammable liquids, Category 3	H226
Acute toxicity (oral), Category 5	H303
Serious eye damage/eye irritation, Category 2B	H320
Specific target organ toxicity — single exposure, Category 1	H370
Hazardous to the aquatic environment — Acute Hazard, Category 2	H401
Full text of H statements : see section 16	

2.2. Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS-ZA) :



GHS02

GHS08

Signal word (GHS-ZA) : Danger

Hazardous ingredients : Medium Aliphatic Petroleum Spirit; Heavy Aromatic Petroleum Solvent

Hazard statements (GHS-ZA) : H226 - Flammable liquid and vapour.
 H303 - May be harmful if swallowed
 H320 - Causes eye irritation
 H370 - Causes damage to organs.
 H401 - Toxic to aquatic life

Precautionary statements (GHS-ZA) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 - Keep container tightly closed.
 P240 - Ground and bond container and receiving equipment.
 P241 - Use explosion-proof equipment.
 P242 - Use non-sparking tools.
 P243 - Take action to prevent static discharges.
 P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
 P264 - Wash hands, forearms and face thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
 P273 - Avoid release to the environment.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P311 - IF exposed or concerned: Call a POISON CENTER or doctor.
P312 - Call a POISON CENTER or doctor if you feel unwell.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P370+P378 - In case of fire: Use media other than water to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Adverse physicochemical, human health and environmental effects : Flammable liquid and vapour, Causes damage to organs, Harmful if swallowed, Toxic to aquatic life

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
Medium Aliphatic Petroleum Spirit	(CAS-No.) 64742-88-7	15 - 28	Flam. Liq. 3, H226 Acute Tox. 5 (Oral), H303 Acute Tox. 4 (Dermal), H312 Acute Tox. Not classified (Inhalation:dust,mist) STOT SE 2, H371 Aquatic Acute 2, H401
Light aromatic petroleum solvent	(CAS-No.) 64742-95-6	6 - 10	Flam. Liq. 3, H226 Aquatic Acute 2, H401
Heavy Aromatic Petroleum Solvent	(CAS-No.) 64742-95-5	3 - 8.75	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 STOT SE 1, H370 Aquatic Chronic Not classified
Methyl ethyl ketoxime		0.05 - 0.08	Flam. Liq. 4, H227 Acute Tox. 5 (Oral), H303 Acute Tox. 4 (Dermal), H312 Aquatic Acute 3, H402

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion : Rinse mouth. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after eye contact : mild eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam.
Unsuitable extinguishing media : Water.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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According to SANS 10234:2008 and SANS 11014:2010

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Clean up any spills as soon as possible, using an absorbent material to collect it. Avoid contact with skin and eyes. No open flames. No smoking. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. May be harmful to aquatic organisms, to flora, to soil organisms.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Protective gloves

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Liquid.

Colour : Metallic.

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According to SANS 10234:2008 and SANS 11014:2010

Odour	: aromatic.
Odour threshold	: No data available
pH	: No data available
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 35 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Relative density of saturated gas/air mixture	: No data available
Density	: 0.9 - 1 kg/l
Relative gas density	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: May be harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

ATE ZA (oral)	4407.258 mg/kg bodyweight
Medium Aliphatic Petroleum Spirit (64742-88-7)	
LD50 oral rat	5000 mg/kg
LD50 dermal rabbit	2000 mg/kg

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Medium Aliphatic Petroleum Spirit (64742-88-7)	
LC50 inhalation rat (mg/l)	5.28 mg/l/4h
Heavy Aromatic Petroleum Solvent (64742-95-5)	
LD50 oral rat	512 - 6631 mg/kg
LD50 dermal rat	2000 mg/kg
LD50 dermal rabbit	5000 ml/kg
LC50 inhalation rat (ppm)	5922 - 6700 ppmv/4h
Methyl ethyl ketoxime	
LD50 oral rat	2.5 - 4 ml/kg
LD50 dermal rat	1 - 2 ml/kg

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Causes damage to organs.

Medium Aliphatic Petroleum Spirit (64742-88-7)	
NOAEL (oral, rat)	750 mg/kg bodyweight
NOAEC (inhalation, rat, vapour)	24
Heavy Aromatic Petroleum Solvent (64742-95-5)	
LOAEL (oral, rat)	25 - 1250 mg/kg bodyweight
LOAEL (dermal, rat/rabbit)	165 mg/kg bodyweight
NOAEL (oral, rat)	4 - 750 mg/kg bodyweight
NOAEL (dermal, rat/rabbit)	495 mg/kg bodyweight
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Toxic to aquatic life.
Acute aquatic toxicity	: Toxic to aquatic life.
Chronic aquatic toxicity	: Not classified

Medium Aliphatic Petroleum Spirit (64742-88-7)	
LC50 fish 1	8.1 mg/l
EC50 Daphnia 1	6 mg/l
ErC50 (algae)	9.4 mg/l
Heavy Aromatic Petroleum Solvent (64742-95-5)	
LC50 fish 1	0.58 - 8.41 mg/l
EC50 Daphnia 1	760 - 4700 µg/l
NOEC chronic fish	5.6 mg/l
Methyl ethyl ketoxime	
LC50 fish 1	46 mg/l
EC50 Daphnia 1	750 mg/l
EC50 72h algae (1)	83 mg/l
Light aromatic petroleum solvent (64742-95-6)	
LC50 fish 1	100 mg/l
EC50 Daphnia 1	4.5 mg/l
ErC50 (algae)	3.7 mg/l

12.2. Persistence and degradability

Warrior Bituminous Aluminium	
Persistence and degradability	No additional information available

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According to SANS 10234:2008 and SANS 11014:2010

12.3. Bioaccumulative potential

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Bioaccumulative potential : No additional information available

12.4. Mobility in soil

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Mobility in soil : No additional information available

12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : No additional information available




SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information : Flammable vapours may accumulate in the container.

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA
14.1. UN number		
1263	1263	1263
14.2. Proper Shipping Name		
Paint	Paint	Paint
14.3. Transport hazard class(es)		
3	3	3
		 Not applicable
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No :	Dangerous for the environment : No
No supplementary information available		

14.6. Special precautions for user

- SANS

No data available

- IMDG

No data available

- IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health, and environmental national regulations specific for the product

No additional information available

SECTION 16: Other information

Date of issue : 26/04/2021

Full text of H-statements:

H226	Flammable liquid and vapour.
H227	Combustible liquid
H303	May be harmful if swallowed
H312	Harmful in contact with skin.

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According to SANS 10234:2008 and SANS 11014:2010

H320	Causes eye irritation
H370	Causes damage to organs.
H371	May cause damage to organs.
H401	Toxic to aquatic life
H402	Harmful to aquatic life

SDS South Africa

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product