



Front Runner black touch up paint

Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010
Issue date: 9/8/2022 Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Trade name : Front Runner black touch up paint
Type of product : Paint
Product group : Trade product

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

Use of the substance/mixture : Generally used coating interior and exterior mild steel components such as burglar bars, bus chassis, drum reconditioning, tractors, trailers, radiators, geysers etc.
Use of the substance/mixture : Paints, lacquers and varnishes

1.3. Supplier's details

Manufacturer

Front Runner
1 Forssman Close, Barbeque Downs,
Kyalami,
1685 Johannesburg, – Gauteng,
South Africa
T 011 466 0155

1.4. Emergency telephone number

Emergency number : 011 466 0155

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Aerosol, Category 1	H222;H229
Acute toxicity (oral), Category 4	H302
Acute toxicity (inhalation:vapour) Category 3	H331
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2A	H319
Respiratory sensitisation, Category 1	H334
Skin sensitisation, Category 1	H317
Germ cell mutagenicity Not classified	
Carcinogenicity Not classified	
Reproductive toxicity Not classified	
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Specific target organ toxicity – Repeated exposure, Category 2	H373
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment – Acute Hazard, Category 2	H401
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411

Full text of H-statements: see section 16

2.2. Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS ZA) :



Signal word (GHS-ZA) : Danger

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Hazardous ingredients	: Toluene, Solvent naphtha (petroleum), light aliph., Phthalic anhydride, Xylene , Ethylbenzene, Lacquer thinners
Hazard statements (GHS ZA)	: H222 - Extremely flammable aerosol. H229 - Pressurised container: May burst if heated. H302 - Harmful if swallowed. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H331 - Toxic if inhaled. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H336 - May cause drowsiness or dizziness. H373 - May cause damage to organs through prolonged or repeated exposure. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (GHS ZA)	: P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P103 - Read label before use. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 - Do not spray on an open flame or other ignition source. P251 - Do not pierce or burn, even after use. P260 - Do not breathe vapours, spray, mist. P261 - Avoid breathing spray, mist, vapours. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear eye protection, protective gloves. P284 - [In case of inadequate ventilation] wear respiratory protection.. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor. P301+P312 - IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell. P302+P352 - IF ON SKIN: Wash with plenty of water. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P311 - Call a POISON CENTER, a doctor. P312 - Call a doctor, a POISON CENTER if you feel unwell. P314 - Get medical attention, medical advice if you feel unwell. P321 - Specific treatment (see supplemental first aid instruction on this label). P330 - Rinse mouth. P331 - Do NOT induce vomiting. P332+P313 - If skin irritation occurs: Get medical advice, medical attention. P333+P313 - If skin irritation or rash occurs: Get medical attention, medical advice. P337+P313 - If eye irritation persists: Get medical attention, medical advice. P342+P311 - If experiencing respiratory symptoms: Call a doctor, a POISON CENTER. P362+P364 - Take off contaminated clothing and wash it before reuse. P391 - Collect spillage. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. P501 - Dispose of contents and container to an approved waste disposal plant.

2.3. Other hazards

Adverse physicochemical, human health and environmental effects	: Pressurised container: May burst if heated,Extremely flammable aerosol,May cause damage to organs through prolonged or repeated exposure,May cause drowsiness or dizziness,Toxic if inhaled,Harmful if swallowed,Causes skin irritation,May cause an allergic skin reaction,Causes serious eye irritation,May cause allergy or asthma symptoms or breathing difficulties if inhaled,May be fatal if swallowed and enters airways,Toxic to aquatic life,Toxic to aquatic life with long lasting effects.
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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
Lacquer thinners	-	30 – 50	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 5 (Dermal), H313 Acute Tox. 3 (Inhalation:vapour), H331 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Muta. Not classified Carc. Not classified Repr. Not classified STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Xylene	CAS-No.: 1330-20-7 EC-No.: 215-535-7	10 – 30	Flam. Liq. 3, H226 Acute Tox. Not classified (Dermal) Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 STOT RE Not classified Aquatic Acute 2, H401 Aquatic Chronic Not classified
Toluene	CAS-No.: 108-88-3 EC-No.: 203-625-9	1 – 30	Flam. Liq. 2, H225 Acute Tox. Not classified (Oral) Acute Tox. 5 (Dermal), H313 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401
Solvent naphtha (petroleum), light aliph.	CAS-No.: 64742-89-8 EC-No.: 265-192-2	1 – 10	Flam. Liq. 2, H225 Acute Tox. Not classified (Oral) Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304
Ethylbenzene	CAS-No.: 100-41-4 EC-No.: 202-849-4	1 – 10	Flam. Liq. 2, H225 Acute Tox. 5 (Oral), H303 Acute Tox. Not classified (Dermal) Acute Tox. 4 (Inhalation:vapour), H332 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401

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Name	Product identifier	%	Classification according to the United Nations GHS
Phthalic anhydride	CAS-No.: 85-44-9 EC-No.: 201-607-5;932-014-6	< 1	Acute Tox. 4 (Oral), H302 Acute Tox. Not classified (Dermal) Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335
hexane	CAS-No.: 110-54-3 EC-No.: 203-777-6	< 1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a doctor.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
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. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.
Symptoms/effects after ingestion	: Risk of lung oedema.

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 : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Extremely flammable aerosol.
Explosion hazard	: Pressurised container: May burst if heated.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

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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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

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 : Mechanically recover the product.
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 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. 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

Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters

Toluene (108-88-3)	
South Africa - Occupational Exposure Limits (Recommended Limits)	
Local name	Toluene
OEL TWA	188 mg/m ³
OEL TWA [ppm]	40 ppm 50 ppm
OEL STEL	560 mg/m ³
OEL STEL [ppm]	150 ppm
Remark	SKIN (danger of cutaneous absorption) Sk
Regulatory reference	Government Notice No. R. 280, 2021 Government Notice. R: 1179

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Toluene (108-88-3)	
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Toluene
OEL TWA	188 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	560 mg/m ³
OEL STEL [ppm]	150 ppm
Remark	Sk (Danger of cutaneous absorption)
Regulatory reference	Government Notice No. R 904
Xylenes (o-, m-, p- isomers) (1330-20-7)	
South Africa - Occupational Exposure Limits (Recommended Limits)	
Local name	Xylene, o-, m-, p- or mixed isomers
OEL TWA [ppm]	200 ppm
OEL STEL [ppm]	300 ppm
Remark	SKIN (danger of cutaneous absorption)
Regulatory reference	Government Notice No. R. 280, 2021
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Xylene, o-, m-, p- or mixed isomers
OEL TWA	218 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	435 mg/m ³
OEL STEL [ppm]	100 ppm
Remark	Sk (Danger of cutaneous absorption)
Regulatory reference	Government Notice No. R 904
hexane (110-54-3)	
South Africa - Occupational Exposure Limits (Recommended Limits)	
Local name	n-Hexane
OEL TWA	70 mg/m ³
OEL TWA [ppm]	100 ppm
Remark	SKIN (danger of cutaneous absorption)
Regulatory reference	Government Notice No. R. 280, 2021
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	n-Hexane
OEL TWA	70 mg/m ³
OEL TWA [ppm]	20 ppm
Regulatory reference	Government Notice No. R 904
Acetone (67-64-1)	
South Africa - Occupational Exposure Limits (Recommended Limits)	
Local name	Acetone
OEL TWA [ppm]	500 ppm

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According to SANS 10234:2019 and SANS 11014:2010

Acetone (67-64-1)	
OEL STEL [ppm]	1000 ppm
Regulatory reference	Government Notice No. R. 280, 2021
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Acetone
OEL TWA	1185 mg/m ³
OEL TWA [ppm]	500 ppm
OEL STEL	2375 mg/m ³
OEL STEL [ppm]	1000 ppm
Regulatory reference	Government Notice No. R 904
2-butoxyethanol (111-76-2)	
South Africa - Occupational Exposure Limits (Control Limits)	
Local name	2-Butoxyethanol (EGBE) (Ethylene glycol monobutyl ether)
OEL TWA	120 mg/m ³
OEL TWA [ppm]	25 ppm
Remark	Sk
Regulatory reference	Government Notice. R: 1179
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	2-Butoxyethanol (Ethylene glycol monobutyl ether [EGBE])
OEL TWA	120 mg/m ³
OEL TWA [ppm]	25 ppm
Remark	Sk (Danger of cutaneous absorption)
Regulatory reference	Government Notice No. R 904
Benzol (71-43-2)	
South Africa - Occupational Exposure Limits (Control Limits)	
Local name	Benzene
OEL TWA	16 mg/m ³
OEL TWA [ppm]	5 ppm
Regulatory reference	Government Notice. R: 1179
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Benzene
OEL TWA	3 mg/m ³
OEL TWA [ppm]	1 ppm
Regulatory reference	Government Notice No. R 904
Dimethyl Ether (115-10-6)	
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Dimethyl ether
OEL TWA	750 mg/m ³
OEL TWA [ppm]	400 ppm
OEL STEL	940 mg/m ³

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Dimethyl Ether (115-10-6)	
OEL STEL [ppm]	500 ppm
Regulatory reference	Government Notice No. R 904
Phthalic anhydride (85-44-9)	
South Africa - Occupational Exposure Limits (Recommended Limits)	
Local name	Phthalic anhydride
OEL TWA	6 mg/m ³
OEL TWA [ppm]	0 ppm (IFV: inhalable fraction and vapour)
OEL STEL	24 mg/m ³
OEL STEL [ppm]	0 ppm
Remark	DSEN (dermal sensitisation, potential to produce dermal sensitisation), RSEN (respiratory sensitisation, potential to produce respiratory sensitisation)
Regulatory reference	Government Notice No. R. 280, 2021
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Phthalic anhydride
OEL TWA	6 mg/m ³
OEL TWA [ppm]	1 ppm
OEL STEL	24 mg/m ³
OEL STEL [ppm]	4 ppm
Remark	Sen (Sensitiser)
Regulatory reference	Government Notice No. R 904
Xylene (1330-20-7)	
South Africa - Occupational Exposure Limits (Recommended Limits)	
Local name	Xylene, o-, m-, p- or mixed isomers
OEL TWA [ppm]	200 ppm
OEL STEL [ppm]	300 ppm
Remark	SKIN (danger of cutaneous absorption)
Regulatory reference	Government Notice No. R. 280, 2021
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Xylene, o-, m-, p- or mixed isomers
OEL TWA	218 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	435 mg/m ³
OEL STEL [ppm]	100 ppm
Remark	Sk (Danger of cutaneous absorption)
Regulatory reference	Government Notice No. R 904
Ethylbenzene (100-41-4)	
South Africa - Occupational Exposure Limits (Recommended Limits)	
Local name	Ethyl benzene
OEL TWA	435 mg/m ³
OEL TWA [ppm]	40 ppm

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According to SANS 10234:2019 and SANS 11014:2010

Ethylbenzene (100-41-4)	
OEL STEL	545 mg/m ³
OEL STEL [ppm]	125 ppm
Remark	CARC (denotes carcinogenicity, which is based on GHS categorisation, including category 1A, 1B), SKIN (danger of cutaneous absorption)
Regulatory reference	Government Notice No. R. 280, 2021
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Ethyl benzene
OEL TWA	435 mg/m ³
OEL TWA [ppm]	100 ppm
OEL STEL	545 mg/m ³
OEL STEL [ppm]	125 ppm
Regulatory reference	Government Notice No. R 904

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 inadequate ventilation] wear respiratory protection.

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 : Gloss.
Colour : Black.
Odour : No data available
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 : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : Extremely flammable aerosol.
Vapour pressure : No data available

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According to SANS 10234:2019 and SANS 11014:2010

Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 0.94 – 0.96
Relative density of saturated gas/air mixture	: No data available
Density	: No data available
Relative gas density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Pressurised container: May burst if heated.
Oxidising properties	: No data available
Explosive limits	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

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)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Toxic if inhaled.

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ATE ZA (oral)	992.767 mg/kg bodyweight
ATE ZA (vapours)	5.816 mg/l/4h
Toluene (108-88-3)	
LD50 oral rat	5580 mg/kg bodyweight
LD50 dermal rabbit	5000 mg/kg bodyweight
LC50 Inhalation - Rat	12.5 mg/l/4h

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According to SANS 10234:2019 and SANS 11014:2010

Solvent naphtha (petroleum), light aliph. (64742-89-8)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
Phthalic anhydride (85-44-9)	
LD50 oral rat	1530 mg/kg
LD50 dermal rabbit	> 10 g/kg
LC50 Inhalation - Rat	> 210 mg/m ³ (Exposure time: 1 h)
Xylene (1330-20-7)	
LD50 dermal rabbit	12126 mg/kg bodyweight Animal: rabbit, Animal sex: male, Remarks on results: other:
Ethylbenzene (100-41-4)	
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	15400 mg/kg
LC50 Inhalation - Rat	17.4 mg/l/4h
Lacquer thinners	
LD50 oral rat	300 – 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	2 – 10 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Reproductive toxicity	: Not classified.
STOT-single exposure	: May cause drowsiness or dizziness.
Toluene (108-88-3)	
STOT-single exposure	May cause drowsiness or dizziness.
hexane (110-54-3)	
STOT-single exposure	May cause drowsiness or dizziness.
Phthalic anhydride (85-44-9)	
STOT-single exposure	May cause respiratory irritation.
Lacquer thinners	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Toluene (108-88-3)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
hexane (110-54-3)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Xylene (1330-20-7)	
LOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)

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Ethylbenzene (100-41-4)	
NOAEL (oral, rat, 90 days)	75 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Lacquer thinners	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: May be fatal if swallowed and enters airways.
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Vaporizer	Aerosol

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.

Toluene (108-88-3)	
LC50 - Fish [1]	15.22 – 19.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 - Fish [2]	12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	5.46 – 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 - Crustacea [2]	11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	12.5 mg/l (Species: Pseudokirchneriella subcapitata [static])
Partition coefficient n-octanol/water (Log Pow)	2.7
Phthalic anhydride (85-44-9)	
BCF - Fish [1]	3169
Partition coefficient n-octanol/water (Log Pow)	0.73
Xylene (1330-20-7)	
EC50 - Crustacea [1]	> 3.4 mg/l Test organisms (species): Ceriodaphnia dubia
LOEC (chronic)	3.16 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'
Ethylbenzene (100-41-4)	
LC50 - Fish [1]	11 – 18 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
LC50 - Fish [2]	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
EC50 - Crustacea [1]	1.8 – 2.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	4.6 mg/l (Species: Pseudokirchneriella subcapitata)
EC50 72h - Algae [2]	2.6 – 11.3 mg/l (Species: Pseudokirchneriella subcapitata [static])
LOEC (chronic)	1.7 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC (chronic)	0.96 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
BCF - Fish [1]	15
Partition coefficient n-octanol/water (Log Pow)	3.2

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Lacquer thinners	
LC50 - Fish [1]	8.1 mg/l
EC50 - Crustacea [1]	6 mg/l
Bioconcentration factor (BCF REACH)	< 100

12.2. Persistence and degradability

Front Runner black touch up paint	
Persistence and degradability	No additional information available

12.3. Bioaccumulative potential

Front Runner black touch up paint	
Bioaccumulative potential	No additional information available

Toluene (108-88-3)	
Partition coefficient n-octanol/water (Log Pow)	2.7

Phthalic anhydride (85-44-9)	
BCF - Fish [1]	3169
Partition coefficient n-octanol/water (Log Pow)	0.73

Ethylbenzene (100-41-4)	
BCF - Fish [1]	15
Partition coefficient n-octanol/water (Log Pow)	3.2

Lacquer thinners	
Bioconcentration factor (BCF REACH)	< 100

12.4. Mobility in soil

Front Runner black touch up paint	
Mobility in soil	No additional information available

Toluene (108-88-3)	
Partition coefficient n-octanol/water (Log Pow)	2.7

Phthalic anhydride (85-44-9)	
Partition coefficient n-octanol/water (Log Pow)	0.73

Ethylbenzene (100-41-4)	
Partition coefficient n-octanol/water (Log Pow)	3.2

Lacquer thinners	
Mobility in soil	500

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.

Front Runner black touch up paint

Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA
14.1. UN number		
Not regulated for transport		
14.2. Proper Shipping Name		
AEROSOLS	AEROSOLS	Aerosols, flammable
14.3. Transport hazard class(es)		
2.1	2.1	2.1
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
No supplementary information available		

14.6. Special precautions for user

SANS

Special provisions (SANS)	: 63, 190
Limited quantities (SANS)	: See SP277
Limited quantities (SANS)	: See SP277
Packagings, large packagings and IBCs Packing instructions (SANS)	: P003
Packagings, large packagings and IBCs Special packing instructions (SANS)	: PP17, PP87

IMDG

Special provisions (IMDG)	: 63, 190, 277, 327, 344, 381, 959
Packing instructions (IMDG)	: P207, LP200
Special packing provisions (IMDG)	: PP87, L2
EmS-No. (Fire)	: F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES
EmS-No. (Spillage)	: S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE)
Stowage category (IMDG)	: None

IATA

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
Special provisions (IATA)	: A145, A167, A802
ERG code (IATA)	: 10L

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

Not applicable

Front Runner black touch up paint

Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

SECTION 15: Regulatory information

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

No additional information available

SECTION 16: Other information

Issue date : 08/09/2022

Full text of H-statements	
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H227	Combustible liquid
H302	Harmful if swallowed.
H303	May be harmful if swallowed
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H313	May be harmful in contact with skin
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects.

Safety Data Sheet (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.