



MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: FAST BENZINE
Company Name: Stevensons Paints
Address: Tobie St, Hennospark, Centurion, Gauteng
Telephone: (012) 653 4222
Facsimile: (012) 653 4225
Spill Emergency no: 0800 17 07 43 (*Rapid Spill Response*)
Health Emergency no: 0800 33 34 44 (*Poison Control Centre*)
E-Mail Address: info@norware.co.za
Contact Persons: P Linde (082 829 4831)
G Swanepoel (083 229 2691)
C van Niekerk (082 669 2594)

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazard Class & Div.: 3
ID Number: UN1268

Specifications

Property	Units	Min	Max	Test Method
Density @ 20 °C	kg/l	0.678	0.692	ASTM D4052
Colour, Saybolt		+25		ASTM D6045 / D156
Distillation Range: I.B.P. D.P.	°C	60.0	115.0	ASTM D1078 / D86
Sulphur	Ppm		10.0	ASTM D5453
Copper Corrosion			1	ASTM D130 / D849
Residue	% v/v		1.5	ASTM D1078 / D86
Residue on Evaporation	mg/100ml		5.0	ASTM D381
Total Aromatics	% v/v		1.0	ASTM D2360 / GLC
n-Hexane	% v/v		15.0	GLC
Benzene	% v/v		<0.1	ASTM D2360 / GLC

Other Properties

Property	Units	Typical	Test Method
Appearance		Bright & Clear	Visual
Flash Point, Tag	°C	<0	ASTM D56
Aniline Point	°C	69.0	ASTM D611
Refractive Index @ 20°		1.388	ASTM D1218
Odour		Acceptable	Olfactory



SECTION 3. HAZARDS IDENTIFICATION

Physical state and appearance	Liquid
Emergency overview	WARNING! EXTREMELY FLAMMABLE LIQUID AND VAPOUR. VAPOUR MAY CAUSE FLASH FIRE. MAY CAUSE SKIN IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. SUSPECT CANCER HAZARD. CONTAINS MATERIAL, WHICH CAN CAUSE CANCER. Risk of cancer depends on duration and level of exposure.
Routes of entry	Eye contact. Ingestion. Inhalation.
Potential acute health effects	
Eyes	Hazardous in case of eye contact (irritant).
Skin	Sensitization of the product: not available. Hazardous in case of skin contact (irritant). Non-permeator by skin. Sever over exposure can result in death. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Inhalation	Extremely hazardous in case of inhalation (lung irritant). May be fatal if inhaled.
Ingestion	Hazardous in case of ingestion. May be fatal if swallowed.
Potential chronic health	CARCINOGENIC EFFECTS: A2 (Suspected for human). By ACGIH. MUTAGENIC EFFECTS: Non-mutagenic foe mammalians. Non-mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available.
Medical conditions aggravated by overexposure	Repeated exposure to a highly toxic material may produce general deterioration of health be an accumulation in one or many organs.
Overexposure/signs/Symptoms	CNS depression, headaches, dizziness, nausea, vomiting. NOTE: Aspiration hazard. May be aspirated into lungs if swallowed or during vomiting, this could be fatal.

See toxicological information (section 11)

SECTION 4. FIRST AID MEASURES

Eye contact	Check for and remove any contact lenses. DO NOT use eye ointment. Get medical attention.
Skin contact	In the case of contact, flush the skin with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds. Cervices, creases and groin. Cover the irritated skin with an emollient. Wash clothes before reuse. Thoroughly clean shoes before reuse. If irritation persists seek medical attention.
Hazardous skin contact	Wash with a disinfectant soap and cover skin with an anti-bacterial cream. Seek medical attention.
Inhalation	If inhaled, remove to fresh air and allow victim to res. Get medical attention.
Hazardous inhalation	If inhaled, remove victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is laboured, give oxygen. If not breathing apply artificial respiration. Get medical attention.

Ingestion	WARNING! It may be hazardous to the person performing aid to give CPR when inhaled material is toxic. DO NOT induce vomiting unless directed to do so by medical personnel. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing apply artificial respiration. Get medical attention.
Hazardous ingestion	No additional information.
Notes to physician	Not available.

SECTION 5. FIRE FIGHTING MEASURES

Flammability of the product	Flammable
Autoignition temperature	235°C
Flash points	CLOSED CUP: <-10°C (14 °F)
Flammable limits	Not available.
Products of combustion	Not available.
Fire hazards in presence of various substances	Highly flammable in the presence of open flames and sparks, of heat and oxidizing materials. Non-flammable in presence of shocks.
Explosion hazards in presence of various substances	Highly explosive in the presence of open flames and sparks, of heat and oxidizing materials. Non-flammable in presence of shocks.
Firefighting media and Instructions	Flammable liquid, insoluble in water. SMALL FIRE: Use DRY chemical, CO ₂ , alcohol foam or water spray. LARGE FIRE: Use water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
Protective clothing (fire)	Wear MSHA/NIOSH self-contained respirator or equivalent and full protective gear.
Special remarks on fire hazards	No additional remarks.
Special remarks on explosive hazards	No additional remarks.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Small spill or leak	Absorb with an inert dry material and place in an appropriate waste disposal container.
Large spill or leak	Flammable liquid, insoluble in water. Keep away from heat. Keep away from sources of Ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. DO NOT get water inside the container. DO NOT touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV.

SECTION 7. HANDLING AND STORAGE

Handling	Keep locked up. DO NOT ingest. Do not breathe gas, fumes, vapour or spray. In the case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container label. Avoid contact with eyes and skin. Keep away from incompatibles such as oxidizing agents, reducing agents, organic materials, acids and alkalis.
Storage	Flammable materials should be stored in a separately safety storage cabinet or room. Keep container in a cool, well-ventilated area. A refrigerated room would be preferable for materials with a flash point lower than 37.8°C (100°F). Keep container tightly closed and sealed until ready for use. Ground all equipment containing material. Keep away from heat. Avoid all possible sources of ignition (spark of flame).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below their respective threshold limit values. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal protection	
Eyes	Splash goggles
Body	Lab coat
Respiratory	Vapour and dust respirator. Be sure to use an MSHA/NIOSH approved respirator equivalent. Wear appropriate respirator when ventilation is inadequate.
Hands	Butyl rubber gloves.
Feet	Not applicable.
Protective clothing	Splash goggles. Lab coat. Vapor respirator. Butyl gloves.
Personal protection in case of large spills	Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling the product.
Product name	Exposure limits
Hydrocarbon blend	ACGIH TLV (1996). TWA: 200ppm TWA: 350mg/m ³ STEL: 2500mg/m ³

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	Liquid (Clear to slightly hazy liquid)
Colour	Colourless. (Light).
Odour	Neutral to mild petroleum smell.
Taste	Not available.
Molecular weight	Average: 70
Molecular formula	C5-C7 n-Paraffins
PH (1% soln/water)	Not applicable.
Boiling/condensation point	59°C (138.2°F)

Melting/freezing point	-90°C
Critical temperature	Not available.
Specific gravity	0.666 (water=1)
Vapor pressure	480 kPa @ 37.8 °C
Vapor density	Not available
Volatility	Not available
Odour threshold	Not available
Evaporation rate	Not available
VOC	Not available
Viscosity	Not available
LogK _{ow}	Not available
Iconicity (in water)	Not available
Dispersion properties	Not available
Solubility	Insoluble in cold water
Physical chemical comments	No additional remark.

SECTION 10. STABILITY AND REACTIVITY

Stability and reactivity	The product is stable.
Conditions of instability	Sparks, open flames, heat and other ignition sources.
Incompatibility with various substances	Highly reactive with oxidizing agents.
Hazardous decomposition products	No data available.
Hazardous polymerization	Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity to animals	Acute oral toxicity (LD50): >5000 mg/kg [Rat]. Acute dermal toxicity (LC50): 2000 mg/kg 4 hour(s) [Rabbit]
Chronic effects on humans	CARCINOGENIC EFFECTS: A2 (suspected for humans) by ACGIH. MUTAGENIC EFFECTS: Non-mutagenic for mammals. Non-mutagenic for bacteria and/or yeast. The substance is toxic to lungs, the nervous system, liver and skin.
Other toxic effects on humans	Extremely hazardous in the case of inhalation. Hazardous in case of skin contact, of ingestion, of eye contact.
Special remarks on toxicity to animals	No additional remark.
Special remarks on chronic effects on humans	No additional remark.
Special remarks on other toxic effects on humans	No additional remark.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	n-Paraffins not toxic to Pseudomonas putida even at high concentrations of 100 000ppm. Only maximum of 5% inhibition was observed.
BOD and COD	n-Paraffins are not readily biodegradable; they reach 25% degradation in 28 days. This product is very volatile.
Biodegradable/OECD	No data available.

Mobility No data available.
Possibly hazardous short-term degradation products not likely.
However, long-term degradation products may arise.

Toxicity of the products of biodegradation The products of degradation are less toxic than the product itself.


Special remarks on the products of biodegradation No additional remark.

SECTION 13. DISPOSAL INFORMATION

Waste information Type: not available
Location: not available
Classification: OECD-CODE AC 030 (Ignitable (D001) Toxic (D018))
Disposal: not available
Storage: not available
Recycling: not available

Waste stream Not available

SECTION 14. TRANSPORT INFORMATION

Regulatory information	UN number	Class	Packing group	Label	Additional information
DOT Classification	UN3295	DOT CLASS 3; Flammable liquid.	III		Flammable liquid n.o.s. Hydrogen blend
Marine pollutant					Flammable liquid n.o.s. Hydrogen blend
TDG Classification		TDG CLASS 3: Flammable liquid.	II		
ADR/RID Classification		ADR CLASS: Flammable liquid A. Flammable liquid with a flash point <21°C (70°C)			
IMO/IMDG Classification ICAO/IATA Classification		IMDG CLASS 3: Flammable liquid. IATA CLASS 3: Flammable liquid			

SECTION 15. REGULATORY INFORMATION



HCS Classification HCS Class: Flammable liquid having flash point lower than 37.8°C (100°F)
HCS Class: Target organ effects

U.S. Federal regulations TSCA 8(b) inventory: KEROSOL 50/115
Clean water act (CWA) 307: No products were found.
Clean water act (CWA) 311: No products were found.

Clean water act (CWA) 112 accidental release prevention: No products were found.

Clean water act (CWA) 112 regulated flammable substances: No products were found.

Clean water act (CWA) 112 regulated toxic substances: No products were found.

State regulations

Pennsylvania RTK: Hydrocarbon blend

Florida: Hydrocarbon blend

Minnesota: Hydrocarbon blend

Massachusetts RTK: Hydrocarbon blend

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: No products were found.

SECTION 16. OTHER INFORMATION

Label requirements

Extremely flammable liquid and vapour, vapour may cause flash fire. May be harmful if absorbed through the skin, if swallowed or inhaled. Can cause damage to the following specific organ(s) and system(s): lungs, central nervous system, liver, skin. May cause skin irritation. May cause eye irritation. Causes respiratory tract irritation.

In case of any discomfort always seek medical advice.

All information is given in good faith but without guarantee in respect of accuracy.

No responsibility is accepted for errors or omissions or the consequences thereof.