



FLOORWORX NO.27

MATERIAL SAFETY DATA SHEET_

DESCRIPTION

FloorworX No. 27 is a water-based carbon loaded acrylic conductive adhesive specifically formulated for the installation of anti-static or conductive flooring where precise limits of electrical resistance are essential. The complete flooring system acts as a medium for equalising electro-static charges while simultaneously reducing the danger of electric shocks from mains-connected equipment.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Product Name:	FloorworX No.27
Revision Date:	November 2016
Chemical Product Type:	Water-based acrylic conductive adhesive
Supplied by:	FloorworX Africa (Pty) Ltd
Company Location:	32 Steele Street, Steeledale, Johannesburg 2197
Chemical Formula:	Not applicable.
Emergency Contact Number:	+27 11 406 4024 (FloorworX) +27 11 266 0300 (Genkem)

2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Preparation: Preparation

Component	CAS No.	%	EC Number	Classification
Toluene	108-88-3	1-10	203-625-9	F; R11, Xn; R20

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3. HAZARDS IDENTIFICATION

This preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Effect and symptoms: Hazardous in case of skin contact (permeator, and sensitizer), of ingestion

Aggravating conditions: Repeating or prolonged exposure is not known to aggravate medical condition.

4. FIRST-AID MEASURES

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Skin In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated shoes and clothing. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Eyes Check for and remove any contact lenses. In case of contact immediately flush eyes with plenty of water for at least 15 minutes.

Ingestion Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as collar, tie, belt or waistband.

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5. FIRE FIGHTING METHODS

Special fire-fighting procedures:

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6. ACCIDENTAL RELEASE MEASURES – ALSO SEE SECTIONS 5, 8 & 13

Personal precautions:

Wear suitable protective clothing.

Environmental precautions and clean-up methods:

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.

7. HANDLING AND STORAGE

Handling:

Keep locked up. Do not ingest. Do not breathe gas, fumes, vapour, and spray. Wear suitable protective clothing. In case of insufficient ventilation wear suitable respiratory equipment. If ingested seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, organic materials.

Storage:

Keep container tightly closed. Keep container in a cool, well-ventilated area away from sources of heat and incompatible materials. Avoid freezing. Store in clearly labelled containers.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures:

Provide adequate ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location. Keep containers closed when not in use.

Hygiene measures:

Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Occupational exposure limits

Ingredient Name:

Occupational Exposure Limits

Toluene

ACGIH (United States, 1996). Skin

TWA: 50 ppm

TWA: 188 mg/m³

ACGIH TLV (United States, 2003). Skin Notes: 1996 Adoption Refers to Appendix A - Carcinogens.

TWA: 188 mg/m³ 8 hour(s).

TWA: 50 ppm 8 hour(s).

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Personal protective equipment: Use and maintain good industrial hygiene.

Respiratory system: Vapour respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate

Skin and body: Lab coat.

Hands: Gloves.

Eyes: Splash goggles.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Pasty liquid. (Viscous liquid.)

Colour: Varies from light grey to charcoal, depending on how well the product has been mixed prior to application.

Odour threshold: The lowest known value is 1.6 ppm (Toluene).

Boiling Point: The lowest known value is 100°C (212°F) (water) weighted average 102.82°C (217.1°F).

Melting Point: May start to solidify at 0°C (32°F) based on data for water. Weighted average -25.51°C (-13.9°F).

Density: Weighted average: 0.96 g/cm³

Vapour Density: The highest known value is 3.14 (Air =1) (Toluene).

Vapour pressure: The highest known value is 2.9 kPa (21.9 mmHg) (at 20°C) (Toluene).

Evaporation rate (Butyl Acetate = 1): 2 (Toluene) compared to Butyl Acetate.

Solubility: Easily soluble in cold water, hot water, methanol, diethyl ether, and acetone. Soluble in n-Octanol.

Octanol/water partition coefficient: This product is more soluble in water.

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10 STABILITY AND REACTIVITY

Stability:	The product is stable.
Materials to avoid:	Do not allow to freeze, avoid exposure to frost.
Hazardous polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Potential Acute Health Effects

Eyes:	Slightly hazardous in case of eye contact (irritant).
Skin:	Slightly irritating to the skin.
Inhalation:	Irritating to the respiratory system if spray is generated.
Ingestion:	Slightly hazardous in case of ingestion.
Routes of Entry:	Eye contact, inhalation, ingestion.

Acute toxicity

Ingredient Name	Test	Result	Route	Species
Toluene	LD50	636 mg/kg	Oral	Rat
	LD50	12210 mg/kg	Dermal	Rabbit
	LDLo	50 mg/kg	Oral	Human
	LD50	8000 mg/kg (4 hrs.)	Inhalation	Rat

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12 ECOLOGICAL INFORMATION

Ecotoxicity Data:

Ingredient Name	Species	Period	Result
Toluene	Toluene Daphnia magna (EC50)	48 hours	6 mg/l
	Toluene Daphnia magna (EC50)	48 hours	6.56 mg/l
	Oncorhynchus mykiss (EC50)	48 hours	6.78 mg/l
	Oncorhynchus mykiss (LC50)	96 hours	5.8 mg/l
	Oncorhynchus mykiss (LC50)	96 hours	6.78 mg/l
	Pimephales promelas (LC50)	96 hours	12.6 mg/l

Ingredient Name	Persistence/degradability						Bio accumulative potential		
	BOD	COD	ThOD	Aquatic Half-life	Photolysis	Biodegradability	LogP	BCF	Potential
Toluene				< 28 day(s)		Readily		13	low

13 DISPOSAL CONSIDERATIONS

Methods of disposal:

Type: Non-hazardous chemical waste.

Disposal:

In a landfill in line with the local municipal disposal regulations.

14 TRANSPORT INFORMATION

Local / International transport regulations

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional
ADR / SABS 0228 Class	Not regulated	-	-			-
IMDG Class	Not regulated	-	-			-
IATA-DGR Class	Not regulated	-	-			-

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15 REGULATORY INFORMATION

SABS 0263 / EU Regulations

Product use: Classification and labeling have been performed according to EU directives 67/548/EEC. 1999/45 EC including amendments and the intended use – Consumer applications.

16 OTHER INFORMATION

Full text of R-Phrases with no. appearing in Section 2

R20: Harmful by inhalation.

Xn: Harmful.

Text of classifications appearing in Section 2

Other special considerations: No additional remarks

PLEASE NOTE

The information and recommendations presented on this data sheet are to the best of our knowledge and belief accurate and reliable, but do not constitute a warranty. None of our representatives or agents are authorised to give any guarantee or warranty or make any representation in addition or contrary to the above, and we do not accept liability for claims of any kind for any loss including, without limitation, consequential loss, injury or damage arising from the use of the information or recommendations, or of the products which are subject to the subject matter hereof. These products are sold subject to our standard conditions of sale and tender, copies of which are available on request.

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