



FLOORWORX NO. 71 ADHESIVE MATERIAL SAFETY DATA SHEET_

DESCRIPTION

FloorworX No. 71 is a solvent-based contact adhesive specially developed to meet the flooring contractor's need for a high performance, multi- purpose contact adhesive.

Note: Highly flammable and must not be used near naked flames or sparks. Work areas must be well ventilated at all times.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Product Name:	FloorworX No. 71 Contact Adhesive
Revision Date:	November 2016
Chemical Product Type:	Contact 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 11 226 0300 (Genkem)

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/preparation: Preparation

Chemical name	CAS No.	%	EC Number	Classification
Toluene	108-88-3	30-40	203-625-9	F; R11 Xn; R20
Solvent naphtha (petroleum), medium aliph	64742-88-7	25-35	265-191-7	Xn; R65
Acetone	67-64-1	5-15	200-662-2	F; R11 Xi; R36 R66, 67
Ethyl Acetate	141-78-6	1-10	205-500-4	F; R11 Xi; R36 R66, 67

3. HAZARDS IDENTIFICATION

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification: Xn; R20

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

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

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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.
Eyes:	Check for and remove any contact lenses. In case of contact immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin:	Wash with soap and water. Get medical attention if irritation develops.
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.

5. FIRE FIGHTING METHODS

Suitable extinguishing media:	SMALL FIRE: Use dry chemical powder LARGE FIRE: Use water spray or fog. Cool containing vessels with water jet to prevent pressure build-up, auto-ignition or explosion.
Hazardous thermal (de)composition products:	These products are carbon oxides (CO, CO ₂), halogenated compounds, and hydrogen chloride.
Special fire-fighting procedures:	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
Protection of fire-fighters:	Be sure to use an approved/certified respirator or equivalent.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear suitable protective clothing.

Environmental precautions and clean -up methods:

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 container. Do not touch spilled material. Prevent entry into sewers, basements or other confined areas; dike if needed. Call for assistance on disposal.

7. HANDLING AND STORAGE

Handling:

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. Avoid contact with eyes. 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, reducing agents, organic materials, acids, alkalis.

Storage:

Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Hygiene measures:	Wash hands after handling compounds and before eating, smoking, using lavatory and at the end of the day.
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:	Safety glasses.

Occupational exposure limits:

Ingredient Name	Occupational Exposure Limits
Toluene:	ACGIH (United States, 1996). Skin TWA: 50ppm TWA: 188 mg/m ³ ACGIH TLV (United States, 2003). Skin Notes: 1996 Adoption Refers to Appendix A—Carcinogens TWA: 188 mg/m ³ 8 hours TWA: 50 ppm 8 hours
Solvent naphtha (petroleum), medium aliph:	ACGIH (United States) STEL: 200 ppm TWA: 100 ppm.
Acetone:	EU OEL (Europe 2000).Notes: indicative TWA: 1210 mg/m ³ 8 hours TWA: 500 ppm 8 hours
Ethyl acetate:	ACGIH TLV (United States, 2001). Notes: 1996 Adoption Refers to Appendix A –Carcinogens. 1996 Adoption Refers to Appendix A –Carcinogens. TWA: 1440 mg/m ³ 8 hours TWA: 400 ppm 8 hours

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Personal protective equipment:

Ingredient Name

Occupational Exposure Limits

Respiratory system:

Vapor 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:

Safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

Liquid (Clear viscous liquid)

Colour:

Beige (Light)

Odour:

Sweet and pungent (strong)

Odour threshold:

The lowest known value is 1.6 ppm (Toluene) Weighted average: 23.47 ppm

Boiling point:

50 to 110°C (122 to 230°F)

Melting point:

May start to solidify at -83.95°C (-119.1°F) based on data for Ethyl Acetate. Weighted average -93.7°C (-136.7°F)

Density:

0.85g/cm³

Vapour density:

The highest known value is 4.8 (Air =1) (Solvent naphtha (Petroleum), medium aliph) weighted average 3.61 (Air =1)

Vapour pressure:

The highest known value is 24.8 kPa (186.2 mmHg) (at 20°C) (Acetone) Weighted average 5.27 kPa (39.53 mmHg) (at 20°C)

Evaporation rate (Butyl Acetate = 1):

The highest known value is 6.06 (Acetone) Weighted average: 5.66 compared to (n-Butyl Acetate=1)

Solubility:

Easily soluble in methanol, diethyl ether, n-Octanol. Insoluble in cold water, hot water.

Octanol/water partition coefficient:

This product is much more soluble in Octanol.

pH:

Neutral.

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Flash point:	The lowest know value is Closed Cup: -18.1°C (-0.6°F) Open Cup: -15.556°C (4°F) (Cleveland) (Acetone)
Fire hazards presence of various substances:	Highly flammable in presence of open flames, sparks and static discharge, oxidizing materials. Flammable in presence of heat, of combustible materials, of moisture. Slightly flammable to flammable in presence of reducing materials.
Auto-ignition temperature:	The lowest known value is 425.9°C (798.6°F)(Ethyl Acetate)
Explosive properties:	Highly explosive in presence of oxidizing materials. Slightly explosive in presence of open flames, sparks and static discharge.
Lower explosion limit:	The greatest known range is Lower: 2.6% Upper: 12.8% (Acetone)

10. STABILITY AND REACTIVITY

Stability:	Product is stable.
Materials to avoid:	Highly reactive with oxidizing materials, organic materials. Reactive with reducing agents, acids, alkalis. Slightly reactive to reactive with metals, moisture.
Hazardous Decomposition Products:	These products are carbon oxides (CO, CO ₂), halogenated compounds, and hydrogen chloride.
Hazardous polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Potential Acute Health Effects

Eyes:	Hazardous in case of eye contact (irritant)
Skin:	Hazardous in case of skin contact (permeator)
Inhalation:	Hazardous in case of inhalation.
Ingestion:	Hazardous in case of ingestion.
Routes of Entry:	Absorbed through skin. Dermal contact, eye contact, inhalation, ingestion.
Target Organs:	Contains material which causes damage to the following organs: blood, kidneys, lungs, nervous system, liver, upper respiratory tract, skin, central nervous system (CNS), eye, lens

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or cornea.

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
	LC50	8000 (4 hours)	Inhalation	Rat
Acetone:	LD50	5800 mg/kg	Oral	Rat
	LD50	5340 mg/kg	Oral	Rabbit
	LD50	20000 mg/kg	Dermal	Rabbit
	LC50	29853 (4 hours)	Inhalation	Rat
Ethyl Acetate:	LD50	5620 mg/kg	Oral	Rat
	LD50	4935 mg/kg	Oral	Rabbit
	LD50	4100 mg/kg	Oral	Mouse
	LC50	19596 (4 hours)	Inhalation	Rat

Special Remarks on Chronic Effects on Humans:

Inhalation of vapours may cause dizziness, an irregular heartbeat, narcosis, nausea or asphyxiation (Toluene)

Special Remarks on other Toxic Effects on Humans:

Exposure can cause lung irritation, chest pain and oedema which may be fatal. (Toluene)

12. ECOLOGICAL INFORMATION

Eco-toxicity Data

Ingredient Name	Species	Period	Result
Toluene:	Daphnia magna (EC50)	48 hours	6 mg/l
	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
Acetone:	Daphnia magna (EC50)	48 hours	23.5 mg/l
	Pimephales promelas (LC50)	48 hours	8990 mg/l
	Daphnia magna (EC50)	48 hours	13500 mg/l
	Pimephales promelas (LC50)	96 hours	>100 mg/l
	Daphnia magna (LC50)	96 hours	>100 mg/l
	Oncorhynchus mykiss (LC50)	96 hours	5540 mg/l
Ethyl Acetate:	Pimephales promelas (EC50)	48 hours	260 mg/l
	Scenedesmus subspicatus (EC50)	48 hours	3300 mg/l
	Scenedesmus subspicatus (EC50)	48 hours	5600 mg/l
	Scenedesmus subspicatus (EC50)	96 hours	230 mg/l
	Scenedesmus subspicatus (EC50)	96 hours	425.3 mg/l
	Pimephales promelas (LC50)	96 hours	484 mg/l
	Oncorhynchus mykiss (LC50)		
	Oncorhynchus mykiss (LC50)		

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Persistence/degradability: Readily biodegradable

Bio accumulative potential: Low

Ingredient Name	Persistence/degradability				Bio-accum. potential	
	BODs	Aquatic Half- Life	Photolysis	Biodegradability	BFC	Potential
Toluene		< 28 days		Readily	13	Low
Acetone		<100 days	80 days	Readily	1	Low
Ethyl Acetate	>1g O ₂ /g	<730 days pH7 25°C	9.4 days	Inherent	3.2	Low

13. DISPOSAL CONSIDERATIONS

Methods of disposal: Type: Hazardous chemical waste.
Disposal: Incineration.

14. TRANSPORT INFORMATION

Local/International transport regulations

Regulatory Information	UN number	Proper Shipping Name	Class	Packing Group
ADR/SABS 0228 Class	UN1133	ADHESIVES, containing flammable liquid (Toluene, Solvent naphtha (petroleum) medium aliph)	3	II
IMDG Class	UN1133	ADHESIVES, containing flammable liquid (Toluene, Solvent naphtha (petroleum) medium aliph)	3	II
IATA-DGR Class	UN1133	ADHESIVES, containing flammable liquid (Toluene, Solvent naphtha (petroleum) medium aliph)	3	II

15. REGULATORY INFORMATION

SABS 0263 /EU Regulations

Classification: Harmful

Risk Phrases: R20 – Harmful by inhalation.

Safety phrases: S2 – Keep out of the reach of children.

S46 – If swallowed, seek medical advice and show this container or label.

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Product use:

Classification and labelling 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:

- R11 – Highly flammable
- R20 – Harmful by inhalation
- R65 – Harmful: may cause lung damage if swallowed.
- R36 – Irritating to eyes.
- R66 – Repeated exposure may cause skin dryness or cracking.
- R67 – Vapors may cause drowsiness or dizziness.

Text of classification appearing in Section 2:

- F - Highly flammable.
- Xn – Harmful.
- Xi – Irritant.

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