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### **MATERIAL SAFETY DATA SHEET**

for

**AEROFOAM NBR GLUE 52-10** 

**AEROFOAM** 

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#### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY

**PRODUCT NAME:** Adhesive 52-10

**USE OF THE PRODUCT:** Special adhesive for processing of all flexible Aerofoam

insulating materials

MANUFACTURER / DISTRIBUTOR: Hira Industries LLC

PO Box, 9013

Al Ghail Industrial Area, Ras Al-Khaima, UAE

P: 07-2589006 | F: 07-2589008

www.aerofoam.ae

TECHNICAL CONTACT POINT: Dr. Laurențiu Pestrițu

Quality, Safety, Product Management

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#### 2. HAZARDS IDENTIFICATION

**POTENTIAL HEALTH EFFECTS:** Extremely flammable.

Can cause eye irritation.
Can cause skin irritation.

Moderate respiratory tract irritant.

Harmful if swallowed.

Inhalation of vapors may cause loss of feeling and weakness in the hands and feet and loss of manual dexterity. Inhalation of high concentrations may result in central nervous system effects such as dizziness, weakness,

fatigue, nausea, headache and lack of coordination.

ADDITIONAL INFORMATION At use formation of explosive / highly flammable vapor-air

mixtures is possible.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**DESCRIPTION** Polychlorene-based adhesive, free from aromatic

compounds: Hexane, Toluene, Heptane, Chlorinated

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Rubber, Cyclohexane & Zinc Oxide.

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Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard.

**CHEMICAL NAME** 

LD50 / LC50

**HAZARDOUS INGREDIENTS** 

# Solvent naphtha (petroleum), hydro treated light naphthenic

(EG-No. 295-529-9) Percentage: 40 - 50 %

Classification: F, R 11; N, R 51/53; Xn R38, R 65, R67 Classification acc. to 67/548/EWG, Annex I, Annotation P: Substance contains < 0,1 percent by weight benzene.

#### Ethyl acetate (CAS 141-78-6)

Percentage: 15 - 25 %

Classification: F, R 11; Xi, R36, R66, R67

### Acetone (CAS 67-64-1)

Percentage: 10 - 15 %

Classification: F, R 11; Xi, R36, R66, R67

#### **Butanone** (CAS 78-93-3)

Percentage: 3 - 7 %

Classification: F, R 11; Xi, R36, R66, R67

#### **2-Propanol** (CAS 67-63-0)

Percentage: 1 - 5 %

Classification: F, R11; Xi, R36, R67

#### **Zinc oxide** (CAS 1314-13-2)

Percentage: < 0,25 % Classification: N, R50/53

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#### 4. FIRST-AID MEASURES

IN CASE OF INHALATION Move to fresh air. Restore breathing, if necessary. Call a

physician if symptoms persist.

IN CASE OF SKIN CONTACT Wash with soap and water. Remove contaminated clothing

and launder. Get medical attention if irritation develops or

persists.

IN CASE OF EYE CONTACT Immediately flush eyes with plenty of water for at least 20

minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as

advised by your physician.

IN CASE OF INGESTION Do not induce vomiting and seek medical attention

immediately. Drink two glasses of water or milk to dilute. Do not give anything by mouth to an unconscious person. Induce vomiting as a last measure. Induced vomiting may lead to aspiration of the material into the lungs potentially

causing chemical pneumonitis that may be fatal.

#### 5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA Carbon dioxide, extinguishing powder or water spray jet. In

case of larger fire use water spray jet or alcohol resistant

foam.

**UNUSUAL FIRE AND EXPLOSION** 

**HAZARDS** 

Vapors are heavier than air and can travel to a source

of ignition and flash back.

**SPECIAL FIRE FIGHTING** 

**INSTRUCTIONS** 

Persons exposed to products of combustion should wear self

contained breathing apparatus and full protective equipment.

**HAZARDOUS COMBUSTION** 

**PRODUCTS** 

Carbon dioxide, Carbon monoxide Chlorine containing

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gases.

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**EXPLOSION HAZARDS** 

May form explosive vapor-air

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY

Full water jet

**REASONS** 

#### 6. ACCIDENTAL RELEASE MEASURE

PERSONAL PRECAUTIONS Keep away from ignition sources on account of the organic

solvent content and air room well. Do not inhale vapors.

**ENVIRONMENTAL PRECAUTIONS** Do not allow product to reach sewage system or waters.

Prevent material from reaching sewage systems, holes or cellars. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local

regulations.

METHODS FOR CLEANING UP /

**TAKING UP** 

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, saw dust). Dispose of the material collected according to regulations. Provide adequate ventilation.

#### 7. HANDLING AND STORAGE

HINTS FOR SAFE HANDLING Mildly irritating material. Avoid unnecessary exposure.

Keep away from heat, sparks and flame. Wash thoroughly

after handling. Keep container closed.

Emptied container retains vapor and product residue.

Observe precautions until container is cleaned.

Drums of this material should be grounded when pouring.

Do not cut or weld on or near this container. This product contains an ingredient that may release formaldehyde at

heated cure temperatures.

HINTS FOR PROTECTION AGAINST

FIRE AND EXPLOSION

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

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HINTS FOR SEPARATION OF **INCOMPATIBLE PRODUCTS** 

Do not store together with food.

STORAGE CONDITIONS

Store in a cool, dry, ventilated location. Keep away from heat, sparks, flame and other Sources of ignition. Keep container closed.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ADDITIONAL INFORMATION ON **ENIGINEERING MEASURES** 

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapor below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

**CONSTITUENTS WITH OCCUPATIONAL EXPOSURE** LIMITS REQUIRERING MONITORING

Ethyl acetate (CAS 141-78-6)

Value: 400 ml/m<sup>3</sup> / 1500 mg/m<sup>3</sup> (TRGS 900)

Category: 2(I)

Version date 01.2006

**Acetone** (CAS 67-64-1)

Value: 500 ml/m<sup>3</sup> / 1200 mg/m<sup>3</sup> (TRGS 900)

Category: 2 (I)

Version date: 01.2006

**Butanone** (CAS 78-93-3)

Value: 200 ml/m<sup>3</sup> / 600 mg/m<sup>3</sup> (TRGS 900)

Category: 1 (I)

Version date: 01.2006

**2-Propanol** (CAS 67-63-0)

Value: 200 ml/m<sup>3</sup> / 500 mg/m<sup>3</sup> (TRGS 900)

Category: 2(II)

Version date: 01.2006

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**GENERAL HEALTH MEASURES** 

The usual precautionary measures for the handling of chemicals have to be observed. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Immediately remove all contaminated clothing. Avoid contact with skin and eyes.

RESPIRATORY PROTECTION

Breathing protection equipment required in inadequately ventilated places and during spraying. For short term use: protection mask with filter – combination filter – type AX-P3 (for gases and vapours of organic compounds, boiling point below 65 °C / particles, colour code: brown / white)

HAND PROTECTION

Disposable gloves are suitable as protection against splashes and should be removed immediately after moistening.

**EYE PROTECTION** 

Use tightly fitting safety glasses.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE liquid

COLOUR light yellowish

ODOR like solvent

SPECIFIC GRAVITY 0.83

**SOLID (% BY WEIGHT)** 20.30

FREEZING/MELTING POINT 0°C

**BOILING POINT** > 56 °C

**FLASH POINT** approx. - 22 °C; -8°F

LOWER EXPLOSION LIMIT approx. 1 Vol (%)

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**UPPER EXPLOSION LIMIT** approx. 13 Vol (%)

VAPOUR PRESSURE AT 50°C < 1100 h Pa

**DENSITY AT 20°C** approx. 0.9 g/cm<sup>3</sup>

**EVAPORATION RATE** Not established

AUTOIGNITION TEMPERATURE Not established

FLAMMABLE LIMITS - LEL (% in air) Not Applicable

FLAMMABLE LIMITS - UEL (% in air) Not Applicable

#### 10. STABILITY AND REACTIVITY

**STABILITY** Stable under normal conditions.

**HAZARDOUS REACTION** No dangerous reactions known.

HAZARDOUS POLYMERIZATION Will not occur.

HAZARDOUS DECOMPOSITION

**PRODUCTS** 

No dangerous decomposition products during appropriate

storage and handling.

If not properly handled and stored: carbon monoxide, carbon

dioxide chlorine may form.

Containing gases may form when heated to decomposition.

#### 11. TOXICOLOGICAL INFORMATION

**EXPERIENCE MADE IN PRACTICE** On the skin: irritant to skin and mucous membranes

On the eye: irritant

Sensitization: no sensitizing effect known

OTHERS Hexane, n Oral LD50 Rat =28710 mg/kg

Inhalation LC50 Rat =48000 ppm/4H

Methylcyclopentane Not established

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Toluene Oral LD50 Rat = 636 mg/kg Inhalation LC50 Rat =49000 mg/cu m/4H

Dermal LD50 Rabbit = 14.1 ml/kg

Heptane

Inhalation LC50 Rat =103000 mg/cu m/4H

Chlorinated paraffin Oral LD50 Rat >21500 ml/kg

Dermal LD50 Rabbit > 10 ml/kg

Cyclohexane Oral LD50 Rat =12705 mg/kg
Calcium carbonate Oral LD50 Rat = 6250 mg/kg

#### 12. ECOLOGICAL INFORMATION

ADDITIONAL ECOLOGICAL

**INFORMATION** 

Do not allow to enter drains/surface water/ground- water.

#### 13. DISPOSAL CONSIDERATIONS

This product meets the definition of hazardous waste. It is ignitable waste class D001. Disposal via incineration is recommended. Dispose of in a manner consistent with federal and local regulations.

LAND DISPOSAL RESTRICTIONS Toluene

DISPOSAL PRODUCT Dispose waste according to applicable local, state and

federal regulations.

**DISPOSAL PACKAGES** Packaging must be emptied of all residues. Packaging with

traces of cured product can be re-cycled. Packaging with uncured product must be disposed of in the same manner as

the medium.

#### 14. TRANSPORT INFORMATION

LAND TRANSPORT (GGVSE/ADR)

**UN-NO**. 1133

PROPER SHIPPING NAME Adhesives

CLASS F1
PACKING GROUP III

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## Hira Industries LLC

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**HAZARD LABEL** 3[Y] NO. FOR HAZARD DESIGNATION 33

**REMARK** Special provision 640 D, LQ6, Tunnel restriction code: D1E

EPG No. 3C1

**MARINE TRANSPORT (IMDG)** 

UN-NO. 1133 PROPER SHIPPING NAME Adhesives

**CLASS OR DIVISION** 3 **PACKING GROUP** Ш **HAZARD LABEL** 3[Y] F-E, S-D EMS NO. STOWING AND SEGREGATION Category B

**MARINE POLLUTANT** The product is not to be classified as ,marine pollutant'

(IMDG 3.2)

EPG No. 3C1

AIR TRANSPORT (ICAO-TI / IATA-DGR)

UN-NO. 1133

PROPER SHIPPING NAME Adhesives.

**DANGEROUS GOODS CLASS** 3 **PACKING GROUP** Ш **HAZARD LABEL** 3[Y] EPG No. 3C1

#### 15. REGULATORY INFORMATION

F **LABELLING** Highly flammable

HAZARD(OUS) SYMBOL(S) AND Χi Irritant

INDICATION(S) OF DANGER Ν Dangerous for the environment

**R-PHRASES** 11 Highly flammable

> 51/53 Toxic to aquatic organisms, may cause long

> > term adverse effects on the aquatic

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environment

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	36/38 67	Irritating to eyes and skin Vapors may cause drowsiness and dizziness
S-PHRASES	16	Keep away from sources of ignition - no smoking
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
	29	Do not empty into drains.
	33	Take precautionary measures against static discharges
	51	Use only in well-ventilated areas
	61	Avoid release to the environment. Refer to special instructions/safety data sheets.

**INTERNATIONAL REGULATIONS** 

According to test results of used raw materials R 51/53 is

assigned.

RELEVANT R-PHRASES	11	Highly flammable
	36	Irritating to eyes
	38	Irritating to skin
	50/53	Very toxic to aquatic organisms, may cause
		long-term adverse effects in the aquatic environment
	51/53	Toxic to aquatic organisms, may cause long
		term adverse effects on the aquatic
		environment
	65	Harmful: may cause lung damage if
		swallowed
	66	Repeated exposure may causes skin
		dryness or cracking
	67	Vapors may cause drowsiness and
		dizziness

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