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MATERIAL SAFETY DATA SHEET NO. 511**TRADE ESSENTIALS - PARTICLEBOARD FLOORING ADHESIVE - LAMIBOND 823**

IMPORTANT NOTICE: This Material Safety Data Sheet (MSDS) is issued by The Laminex Group in accordance with National Occupational Health and Safety Commission (NOHSC) Guidelines. As such, the information contained herein must not be altered, deleted or added to. The Laminex Group will issue a new MSDS when there is a change in product specifications and/or NOHSC guidelines/regulations. The Laminex Group will not accept any responsibility for any changes made to its MSDS in content by any other person.

STATEMENT OF HAZARDOUS NATURE:

This material is classified as a hazardous substance according to the criteria of NOHSC and a Dangerous Good by the criteria of the ADG Code.

COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Entity	CAS No.	Proportion	R Phrases
Light Aliphatic Petroleum solvent	64742-49-0	10 - 30%	R11, R20, R21, R48
n-hexane & hexane isomers	110-54-3	< 10%	R11, R20, R48, R62, R65, R67
Non hazardous materials		up to 100%	

No other hazardous materials are present in this product at concentrations above the cut off levels as noted in the NOHSC List of Designated Hazardous Substances, or as defined in the Approved Criteria for Classifying Hazardous Substances NOHSC: 1008(2004).

AICS status: All components of the finished product are listed on the AICS

HAZARD IDENTIFICATION

Emergency Overview: Highly flammable, harmful by inhalation, ingestion and by skin and eye contact

Acute:

Swallowed: Moderately toxic. Tends to break up into foam if the patient vomits. Upon aspiration into the lungs, chemical pneumonitis may develop.

Eye: This material is expected to be mildly irritating to the eye

Skin: Mildly irritating to the skin. Frequent or prolonged contact can cause skin complaints such as dermatitis.

Inhalation: Irritating to the respiratory system. Prolonged exposure to vapours may cause headaches, impairment of judgment, central nervous system depression that in extreme cases may lead to unconsciousness or death.

Chronic:

Reports exist related to chronic toluene poisoning which indicate bone marrow and liver damage.

Inhalation

Repeated inhalation or skin exposure to n-hexane has been noted to cause peripheral neuropathy in exposed individuals. Both sensory and motor nerve damage has been documented with long-term exposure of greater than 500 ppm. Cessation of exposure is not immediately followed by improvement and symptoms may even progress for 2 - 3 months. Final recovery may take more than one year depending on the severity of the intoxication and may not always be complete. Concurrent exposure to n-hexane and methyl ethyl ketone (MEK) will accelerate the appearance of damage due to n-hexane, although MEK will not itself cause the effect.

Other isomers of n-hexane do not cause the above effects. It is not expected that the above effects would be noted in individuals exposed at or below the applicable Time Weighted Average (TWA) exposure limits.

FIRST AID MEASURES

Swallowed: Do not induce vomiting. Give 1 - 2 glasses of water and obtain medical assistance. Should the patient vomit, maintain a clear airway until medical assistance is obtained

Eye: Flush with water for 15 minutes. It is advisable to obtain medical advice concerning any eye injury.

Skin: Hose down with water before removing clothes due to possibility of static discharging igniting vapour. Wash affected areas with soap and water thoroughly. Allow clothing to thoroughly air dry then launder before re-use.

Inhaled: Carefully remove persons to fresh air, avoid becoming affected yourself. If the patient is severely affected obtain medical assistance. If the person stops breathing apply artificial respiration and other first aid techniques as required until medical assistance arrives.

Advice to Doctor:

Oral: Gastrointestinal irritation, nausea, vomiting and cramping. CNS depression ranging from mild headache to anaesthesia and coma. Pulmonary irritation secondary to exhalation of solvent. Lavage with cuffed tube if a large quantity is ingested. Aspiration is the main danger. Enforce bed rest and observe carefully. Observe for 24 hours for chemical pneumonitis. Longer term medical surveillance may be necessary. Maintain airway and vital functions

Inhalation: CNS depression characterised by headache and dizziness that in extreme cases can lead to unconsciousness and death.

FIRE FIGHTING MEASURES

Product is flammable and does represent a fire and explosion hazard. Excessively heated sealed containers may rupture explosively.

Sources of Ignition Advice:

Isolate from sources of heat, naked flames and sparks, including static discharges. Prevent build up of flammable vapours. Vapour and air mixture may ignite explosively

Dangerous Decomposition:

Carbon Dioxide, carbon monoxide and other unidentified thermal decomposition products

Fire Fighting Recommendations:

Use foam, carbon dioxide or dry chemical

ACCIDENTAL RELEASE MEASURES

Wear rubber gloves and goggles in addition to respiratory protection for protection against splashes and vapours. Extinguish all ignition sources. Dam and recover. Prevent entry into drainage systems, rivers, waterways etc. Collect with absorbent materials such as sand, earth or appropriate commercial absorbent. Shovel up with non-sparking tools then place into suitable containers. Empty containers may contain product residue. Follow safety procedures until container has been cleaned.

HANDLING & STORAGE

Store on wooden pallet. Store between 0° and 30°C. Should recommended maximum temperature be exceeded, cool sealed container under running water for 30 minutes before use. Excessively heated sealed drums may rupture explosively. Keep away from heat, naked flames or sparks including static discharges. Use appropriate earthing techniques when transferring liquids from one container to another. Store away from oxidising agents. Keep containers closed at all times when not in use.

Dangerous Goods Class / Subsidiary Risk:

Class 3 Flammable Liquid, Packaging Group II

EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure

This material contains the following materials for which exposure limits have been set by NOHSC as listed in "National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC: 1003(1995)]" is as follows:

n-hexane	110-54-3	TWA 50 ppm STEL Not noted
Other isomers of hexane		TWA 500 ppm STEL 1,000 ppm

Ventilation:

Provide explosion proof ventilation sufficient to maintain exposure levels below the listed exposure limits

Personal Protection:

Respiratory type (AS1716) Organic vapour mask if exposed to mist or vapours which results in exposures up to 10 times the exposure limit. Above this level air supplied breathing apparatus must be used.

Gloves: Impervious gloves should be worn to prevent skin contact. Consult industrial glove supplier for a suitable glove

Eye: Goggles or face shields to avoid splashes

Clothing: Sufficient to avoid skin contact.

PHYSICAL & CHEMICAL PROPERTIES

Appearance: Buff Paste

Chemical Properties

Boiling point, °C:	78 – 101
Vapour Pressure, mm Hg at 25 °C:	Not known
Solubility in Water, g/l:	Insoluble
Specific Gravity: kg / litre	1.10
Flash Point, °C:	< -20
Flammability Limits, % Upper:	7.0%
Lower	1.0%
Evaporation Rate (BuAc = 1):	Not Determined
Other Data:	None noted

Uses: Construction adhesive

STABILITY & REACTIVITY

Reactivity: Stable at normal temperature and pressure

TOXICOLOGICAL INFORMATION

n-hexane:-

Inhalation Human	TCLo = 190 ppm / 8W: Peripheral nervous system effects
Oral rat	LD50 = 28,710 mg / kg

ECOLOGICAL INFORMATION

No data available for this product. Do not allow product to enter the environment. Waste material should be collected and disposed of according to the relevant Local/State or Federal Regulations

DISPOSAL

Refer to Land Waste Management Authority

TRANSPORT INFORMATION

Proper Shipping Name:	Adhesive containing flammable liquid (i) immiscible with water,
UN Number:	1133
Dangerous Goods Class	3.1
Subsidiary Risk:	Not Applicable
HAZCHEM Code:	3[Y]E
Poisons Schedule:	S5
Packaging Group	II

REGULATORY INFORMATION

Hazard Classification Harmful Xn

Risk Phrases:

R11	Highly Flammable
R20	Harmful by inhalation
R21	Harmful by contact with skin
R22	Harmful if swallowed
R48	Danger of serious damage to health by prolonged exposure

Safety Phrases:

S9	Keep container in a well ventilated place
S16	Keep away from sources of ignition. No smoking
S24	Avoid contact with skins
S25	Avoid contact with eyes
S29	Do not empty into drains
S33	Take precautionary measures against static discharge
S51	Use only in well ventilated areas

OTHER INFORMATION

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