Trade Essentials® THE laminex GROUP

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MATERIAL SAFETY DATA SHEET NO. 515

TRADE ESSENTIALS - ABS EDGE STRIP CLEANER

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. Laminex will issue a new MSDS when there is a change in product specifications and/or NOHSC guidelines/regulations. Laminex 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 phrase
Hazardous constituents			
Light Aliphatic Petroleum solvent	64742-89-8	> 60%	R11, R20, R21, R48
Ethyl Alcohol	64-17-5	10 - 30%	R11
n-hexane & hexane isomers	100-54-3	10 - 30%	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 by NOHSC in the 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.

HAZARDS 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	Irritating to the eye
Skin	Mildly irritating to the skin. Frequent or prolonged contact can cause skin complaints such as dermatitis
Inhaled	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

Fire / Explosion Hazard

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

Sources of Ignition Advice

Isolate from of 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. 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^{o} and 30^{o}C. Should recommended maximum storage 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 AND PERSONAL PROTECTION

Exposure

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

Ethyl Alcohol	64-17-5	TWA 1,000ppm STEL Not noted
n-hexane	110-54-3	TWA 50ppm STEL Not noted
Other isomers of hexane		TWA 500ppm STEL 1,000ppm

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 at up to 10 times the exposure limit. Above this level use air supplied or self-contained breathing apparatus.

Glove Type

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

Clear liquid

Chemical Properties

Boiling point, ^{o}C:	Initial 77^{o}C
Vapour Pressure@ 760 mm Hg at 25 ^{o}C	Not known
Solubility in Water, g/l:	Immiscible
Specific Gravity: kg /litre	Approx. 0.72
Flash Point, ^{o}C:	< -20
Flammability Limits, % Upper:	7.0%
Flammability Limits, % Lower	1.0%
Evaporation Rate (BuAc = 1):	Not Determined
Other Data:	None noted

Use

Cleaning of hot melt adhesive residues from ABS and Melamine edging surfaces.

Method of application

Mechanical or hand tool

STABILITY & REACTIVITY

Reactivity

Stable at normal temperature and pressures

TOXICOLOGICAL INFORMATION

Ethyl Alcohol	TWA = 1,000ppm
n-hexane Oral rate	LD50 = 28,710 mg / kg
Inhalation Human	TCLo = 190 ppm / 8W: Peripheral nervous system effects

ECOLOGICAL INFORMATION

No data available for the 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	Flammable Liquid NOS (contains > 60% Petroleum distillate, n-hexane 10 - 30%)
UN Number	1993
Dangerous Goods Class	3
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

S 9	Keep container in well ventilated place
S16	Keep away from sources of ignition. No smoking
S24	Avoid contact with skin
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

Contact Point

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