MATERIAL SAFETY DATA SHEET

SECTION I - HAZARDOUS INGREDIENTS

PRODUCT CLASS: NAPTHA (VM/LP)
TRADE NAME: VH-14
MANUFACTURER CODE I.D.: 4W-039-1

SECTION II - HEALTH INFORMATION

EFFECTS OF SHORT TERM OVEREXPOSURE

SWALLOWING
Can cause gastrointestinal irritation, nausea, and vomiting. Aspiration of material into lung may cause chemical pneumonitis which can be fatal.

INHALATION
May cause nose or throat irritation. High concentrations may cause acute central nervous system depression characterized by headaches, dizziness, nausea and confusion.

EYE
May cause eye irritation.

SKIN
May cause defatting and irritation of the skin.

EFFECTS OF REPEATED OVEREXPOSURE

Reports have associated prolonged and repeated occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH
None currently known

SECTION IV - FIRST AID AND EMERGENCY PROCEDURES

INGESTION
If swallowed do not induce vomiting. Call poison control center, hospital emergency room or physician immediately.

INHALATION
Remove to fresh air immediately. If breathing has stopped, give artificial...
SECTION IV - FIRST AID AND EMERGENCY PROCEDURES (CONTINUED)

VALUATION

Inhalation: Keep warm and quiet. Get medical attention immediately.

EYES: Flush with large amounts of water, lifting upper and lower lids occasionally. Continue for at least 15 minutes. Get medical attention.

SKIN: None should be needed.

NOTES TO PHYSICIAN

Any treatment that might be required for overexposure should be directed at the control of symptoms and the clinical conditions.

SECTION V - PHYSICAL DATA

BOILING RANGE

240 DEG. F. (116 DEG. C.) TO 285 DEG. F. (141 DEG. C.)

VAPOR DENSITY

% VOLATILE BY VOLUME

100

EVAPORATION RATE

UOC 6.15 LB/GAL LESS WATER & NPS 738 G/L LESS WATER

Slower than diethyl ether.

NCIT LB/GAL

6.3 UOC .00 LB/GAL SOLIDS

0 G/L SOLIDS

SPECIFIC GRAVITY

0.8

All physical data determined at 68 DEG. F. (20 DEG. C.) 760 mm HG

% Not111ibly Photochemically Reactive Materials

SECTION VI - FIRE AND EXPLOSION DATA

NFPA FLAMMABILITY CLASSIFICATION

FLAMMABLE LIQUID - CLASS III

FLASHPOINT

45 DEG. F.

(7 DEG. C.)

CALCULATED

EXTINGUISHING MEDIA

Use NFPA Class B Fire extinguishers (carbon dioxide, all purpose dry chemical or alcohol foam) designed to extinguish flammable liquid fires. Polymer foam is preferred for large fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS

During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

WARNING: FLAMMABLE.

SPECIAL FIRE FIGHTING PROCEDURES

Water may be ineffective, but may be used to cool exposed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

SECTION VII - REACTIVITY DATA

STABILITY

Normally stable.

CONDITIONS TO AVOID

Avoid excessive heat (>115 F 46 C) and sources of ignition.

INCOMPATIBILITY (MATERIALS TO AVOID)

Strong acids or alkaline materials.

HAZARDOUS DECOMPOSITION PRODUCTS

Burning, including when heated by welding or cutting, will produce smoke, carbon monoxide and carbon dioxide.
SECTION VII - REACTIVITY DATA: (CONTINUED)

Hazardous Polymerization
Will not occur

Precautions to Avoid
None known

SECTION VIII - ENVIRONMENTAL INFORMATION

Steps to Be Taken if Material is Released or Spilled
Keep spectators away. Eliminate all ignition sources (flames, hot surfaces, and sources of electrical, static or frictional sparks). Diw and contain spill with inert material (e.g. sand, earth). Transfer liquids to covered metal containers for recovery or disposal, or remove with inert absorbent. Use only non-sparking tools. Place absorbent diking materials in covered metal containers for disposal. Prevent contamination of sewers, streams, and groundwater with spilled material or used absorbent.

Waste Disposal
Dispose in accordance with federal, state and local regulations.

RCRA Classification
This product, if discarded directly, would be classified a hazardous waste based on its ignitability characteristic, i.e. has a flash point of 140 deg. F. (60 deg. C) or less. The proper RCRA classification would be D001.

Environmental Hazards
None known

SECTION IX - PERSONAL PROTECTION INFORMATION

Respiratory Protection
Proper selection of respiratory protection depends upon many factors including duration/level of exposure and conditions of use. In general, exposure to organic chemicals such as those contained in this product may not require the use of respiratory protection if used in well ventilated areas. In restricted ventilation areas a NIOSH approved chemical cartridge respirator may be required. Under certain conditions, such as spraying, a mechanical prefilter may also be required. In confined areas use a NIOSH/MSHA approved air supplied respirator. If the TLV's listed in Section II are exceeded use a properly fitted NIOSH/MSHA approved respirator with an appropriate protection factor. Refer to OSHA 29 CFR 1910.134 "Respiratory Protection", and "Respiratory Protection A Manual And Guideline, American Industrial Hygiene Assoc."

Ventilation
Provide local exhaust ventilation in sufficient volume and pattern so as to maintain exposure below nuisance dust limits and permissible exposure limits which may be listed in Section II. Refer to Industrial Ventilation: A Manual for Recommended Practice - American Conference Of Governmental Industrial Hygienists.

Hand Protection
Solvent impermeable gloves are required for repeated or prolonged contact.

Eye Protection
Wear safety spectacles.

Other Protective Equipment
Not likely to be needed.

SECTION X - SPECIAL PRECAUTIONS

Precautions to Be Taken in Handling and Storage

Other Precautions
Do not take internally. Close container after each use.
SECTION X - SPECIAL PRECAUTIONS: (CONTINUED)

OTHER PRECAUTIONS

Empty containers must not be washed and re-used for any purpose.
Containers should be grounded and bonded to the receiving container.
Do not weld, braze or cut on empty container.
Never use pressure to empty. Drum is not a pressure vessel.

SECTION XI - OTHER INFORMATION

US DOT HAZARDOUS MATERIAL INFORMATION

PROPER SHIPPING NAME: NAPTHA

HAZARD CLASS: FLAMMABLE LIQUID

ID NUMBER: UN 1256

PACKAGING GROUP: II

The information contained herein is based on data considered to be accurate. While the information is believed to be reliable, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Since the use of this information and the conditions and use of this product are controlled by the user, it is the user's obligation to determine the conditions of safe use of the product.

The Corporate Safety and Environmental Affairs Department is responsible for the preparation of this material safety data sheet.

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