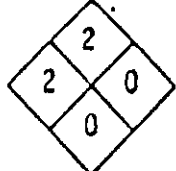


WITCO MATERIAL SAFETY DATA SHEET

KENSOL 30

PAGE 1
Product Code: C04 4111

HAZARD RATING
N 4 - Extreme
F 3 - High
P 2 - Moderate
A 1 - Slight
0 - Insignificant

Fire
Toxicity  Reactivity
Special

=====

DIVISION AND LOCATION---SECTION I

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Division: KENDALL/AMALIE

Location: BRADFORD, PENNSYLVANIA

77 N. KENDALL AVE., BRADFORD, PA, 16701

Emergency Telephone Number: (814) 368-6111

Transportation Emergency: CHEM TREC 1-(800) 424-9300 (U.S. and Canada)

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CHEMICAL AND PHYSICAL PROPERTIES---SECTION II

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Chemical Name:

petroleum hydrocarbon

Formula: not applicable

Hazardous Decomposition Products:

carbon monoxide and carbon dioxide from burning.

Incompatibility (Keep away from):

strong oxidizers such as hydrogen peroxide, bromine, and chromic acid.

Toxic and Hazardous Ingredients:

Stoddard solvent

100

CAS #
8052-41-3

Form: liquid

Odor: mild petroleum

Appearance: low viscosity liquid

Color: colorless

Specific Gravity (water=1): .77

Boiling Point: greater than 154°C (310°F)

Melting Point: not applicable

Solubility in Water (by weight %): 0 at 20°C

Volatile (by weight %): 100

Evaporation Rate: (n butyl acetate = 1) .2

Vapor Pressure (mm Hg at 20°C): 3

Vapor Density (air=1): 4.85

pH (as is): not applicable

Stability: Product is stable under normal conditions

Viscosity SUS at 100°F: Less than 100

=====

FIRE AND EXPLOSION DATA---SECTION III

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Special Fire Fighting Procedures:

Do not use water except as fog

Unusual Fire and Explosion Hazards:

Avoid all ignition sources such as flames and sparks

Flashpoint: (Method Used) Tag closed-cup 38°C (101°F)

WITCO MATERIAL SAFETY DATA SHEET

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Product Code: C04 4111

(Section III continued)

Flammable limits %:

Lower: 1 Upper: 7

Extinguishing agents:

Drychemical or Waterfog or CO₂ or Foam

Exposed material may be cooled with water.

HEALTH HAZARD DATA---SECTION IV

Permissible concentrations (air):

stoddard solvent: 500 ppm (OSHA); 100 ppm (ACGIH); STEL 200 ppm (ACGIH)

Chronic effects of overexposure:

Irritation of eyes, nose and throat. Dizziness. Dermatitis.

Acute toxicological properties:

no data available

Emergency First Aid Procedures:

Eyes: Immediately flush with large quantities of water for at least 15 minutes and call a physician.

Skin Contact: Remove excess with cloth or paper. Wash thoroughly with soap and water.

Inhalation: Remove victim to fresh air. Call a physician.

If Swallowed: Call a physician immediately. DO NOT induce vomiting. (Vomiting may cause aspiration into lungs resulting in chemical pneumonia.)

This statement is required under federal regulations for consumer products. Although this product is intended for industrial use, the statement is included because of the possibility of consumer use.

SPECIAL PROTECTION INFORMATION---SECTION V

Ventilation Type Required (Local, mechanical, special):

Local if necessary to maintain allowable PEL(permissible exposure limit) or TLV(threshold limit value)

Respiratory Protection (Specify type):

Use NIOSH/OSHA approved respirator with organic vapor cartridge if vapor concentration exceeds permissible exposure limit

Protective Gloves: neoprene type

Eye Protection: chemical safety goggles.

Other Protective Equipment:

none

HANDLING OF SPILLS OR LEAKS---SECTION VI

Procedures for Clean-Up:

Avoid all ignition sources such as flames and sparks. Insure good ventilation. If volume is significant, transfer into containers for disposal. Seal containers

WITCO MATERIAL SAFETY DATA SHEET

KENSOL 30

PAGE 3

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(Section VI continued)

tightly. Absorb on an inert ingredient such as earth, sand or vermiculite. Sweep up and dispose of according to Federal, State and local regulations.

Waste Disposal:

Dispose of in accordance with all applicable federal, state and local regulations.

SPECIAL PRECAUTIONS---SECTION VII

Precautions to be taken in handling and storage:

Avoid all ignition sources such as flames and sparks.

Do not handle or store at temperatures over

Maximum Storage Temperature: 38°C (100°F)

TRANSPORTATION DATA---SECTION VIII

D.O.T.: Regulated

U.S. D.O.T. Proper Shipping Name: Petroleum naphtha

U.S. D.O.T. Hazard Class: Combustible liquid

I.D. Number: UN 1255

Label(s) Required: none

Reportable Quantity: none

Freight Classification: Petroleum Naphtha-Combustible Liquid

Special Transportation Notes:

Unregulated by DOT when shipped in containers of less than 110 gallons.

COMMENTS---SECTION IX

Signature: LUTHER DROMGOLD

Title:

MGR., NEW PRODUCTS

Original Date: 06/03/80 Sent to:

Revision Date: 04/24/86

Date:

Supersedes: 10/03/83

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.

ADDITIONAL HEALTH DATA

See following pages

SPECIAL PROTECTIVE INFORMATION

Eye Protection: Keep away from eyes. Eye contact can be avoided by wearing chemical safety goggles.

Skin Protection: Keep away from skin. Skin contact can be minimized by wearing impervious protective clothing including gloves.

Respiratory Protection: Avoid prolonged breathing of vapor by using approved respiratory protection. In open areas, such as outdoor gasoline transfer areas, ventilation is usually adequate to prevent prolonged breathing of high gasoline vapor concentrations. See Additional Health Data.

Ventilation: Use this material only in well ventilated areas.

Comment: If you experience any of the signs or symptoms described in this MSDS, you may be exposed to harmful gasoline levels. Your exposure can be minimized if you follow the protective measures presented above.

FIRE PROTECTION

This product presents an extreme fire hazard. Liquid very quickly evaporates, even at low temperatures, and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches.

Flash Point: (P-M) < -49°F (-45°C)

Autoignition Temp.: NDA

Flammability Limits: 1.4-7.6%

Extinguishing Media: CO₂, Dry Chemical, Foam, Water Fog.

Special Fire Fighting Procedures: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency. Read the entire MSDS.

SPECIAL PRECAUTIONS

See last page of this MSDS.

ENVIRONMENTAL PROTECTION

7-18C031 104

Environmental Impact: Certain geographical areas have air pollution restrictions concerning the use of materials in work situations which may release volatile components to the atmosphere. Air pollution regulations should be studied to determine if this material is regulated in the area where it is to be used. This material is considered to be a water pollutant and releases of this product should be prevented from contaminating soil and water and from entering drainage and sewer systems.

Precautions if Material is Released or Spilled: Eliminate all sources of ignition in vicinity of spill or released vapor. Clean up small spills using appropriate techniques such as sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

Waste Disposal Methods: Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.

REACTIVITY DATA

Stability (Thermal, Light, etc.): Stable.

Incompatibility (Materials to Avoid): May react with strong oxidizing materials.

Hazardous Decomposition Products: Normal combustion forms carbon dioxide and water vapor; incomplete combustion can produce carbon monoxide.

Hazardous Polymerization: Will not occur.

PHYSICAL PROPERTIES

Solubility: Soluble in hydrocarbons; insoluble in water.

Appearance (Color, Odor, etc.): Orange to bronze liquid.

Boiling Point: 25-225°C (Range)*

Melting Point: n/a

Specific Gravity: 0.7-0.8 (Range)

Vapor Pressure: 5-15 psi (max.) @ 100°F (Range)*

Vapor Density (Air=1): 3-4 (Range)

Percent Volatile (Volume %): 99+

Evaporation: NDA

*Variable with season and location.

n/a = Not Applicable

NDA = No Data Available

The above information is based on data of which we are aware and is believed to be correct as of the date hereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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