Kimball Midwest

OSHA Hazard Communication Training Update 2013

Hazard Communication

(HAZCOM)

and the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

KIMBALL MIDWEST

GHS Timeline

Effective Dates

The table below summarizes the phase-in dates required under the revised Hazard Communication Standard (HCS):

Effective Completion Date	Requirement(s)	Who
December 1, 2013	Train employees on the new label elements and safety data sheet (SDS) format.	Employers
June 1, 2015 December 1, 2015	Compliance with all modified provisions of this final rule, except: The Distributor shall not ship containers labeled by the chemical manufacturer or importer unless it is a GHS label	Chemical manufacturers, importers, distributors and employers
June 1, 2016	Update alternative workplace labeling and hazard communication program as necessary, and provide additional employee training for newly identified physical or health hazards.	Employers
Transition Period to the effective completion dates noted above	May comply with either 29 CFR 1910.1200 (the final standard), or the current standard, or both	Chemical manufacturers, importers, distributors, and employers

KIMBALL MIDWEST

Purpose of Hazard Communication Update

- This update will provide a common and coherent approach to classifying chemicals and communicating hazard information on labels and safety data sheets
- These new labeling elements and SDS requirements will improve worker understanding of the hazards associated with the chemicals in their workplace

KIMBALL MIDWEST

Safety Data Sheet (SDS)

- Previously known as the Material Safety Data Sheets (MSDS)
- New uniform format including section number, heading and associated information
- Standardized placement of information

KIMBALL MIDWEST

Section 1, Identification

SAFETY DATA SHEET.

Issuing date 01-Aug-2013 **Revision Date** 01-Aug-2013 **Version** 1

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

Product identifier

Product name INTER-LUBE PENETRATING GREASE-80-925

Recommended use of the chemical and restrictions on use

Product code 80-925

Product Type Extremely flammable aerosol

Supplier's details

Recommended Use Penetrating lubricant.

Uses advised against No information available

Emergency telephone

Supplier Address

Kimball Midwest
P.O. Box 2470
Columbus, OH 43216

Emergency telephone number

Chemical Emergency Phone Number Chemtrec 1-800-424-9300

Section 2, Hazard(s) identification

2. HAZARDS IDENTIFICATIi

Classification

Germ Cell Mutagenicity	Category 1B
Carcinogenicity	Category 1B
Aspiration toxicity	Category 1

GHS Label elements, including precautionary statements

Emergency Overview

DANGER

Hazard Statements
May cause genetic defects
May cause cancer
May be fatal if swallowed and enters airways



Appearance No information available **Physical state** Aerosol **Odor** Solvent

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do NOT induce vomiting

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other information
• May be harmful in contact with skin
i

Section 3, Composition Information on Ingredients

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS # 64742-49-0, COMMERCIAL HEXANES, MAY BE SUBSTITUTED FOR CAS #110-54-3.

Chemical Name	CAS-No	Weight %	Trade Secret
PROPANE/ISOBUTANE/N-BUTANE	68476-86-8	40 - 50%	*
NAPHTHENIC OIL, SEVERLY HYDROT	64742-52-5	20 - 30%	*
HEXANE	64742-49-0	10 - 20%	*
PETROLATUM	8009-03-8	0 - 10%	*
HYDROTREATED HEAVY NAPHTHENIC	64742-48-9	0 - 10%	*

KIMBALL MIDWEST

Section 4, First-aid Measures

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice	Immediate medical attention is required. Show this material safety data sheet to the doctor in attendance.
Eye contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
Skin contact	Wash off immediately with plenty of water. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Inhalation	Move to fresh air. Call a physician or Poison Control Center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Drink plenty of water. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or Poison Control Center immediately.
Protection of First-aiders	Remove all sources of ignition.

Most important symptoms/effects, acute and delayed

Main Symptoms	Hives.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

Section 5, Fire-fighting Measures

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Decomposition by contact with water may generate vapors which can be ignited by heat or open flame.

Specific hazards arising from the chemical
The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.

Explosion Data
Sensitivity to Mechanical Impact none.
Sensitivity to Static Discharge Yes.

Protective Equipment and Precautions for Firefighters
In the event of fire and/or explosion do not breathe fumes.

KIMBALL MIDWEST

Section 6, Accidental Release Measures

6. ACCIDENTAL RELEASE MEASURES

INTER-LUBE PENETRATING GREASE-80-925 **Revision Date** 01-Aug-2013

Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. Remove all sources of ignition. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal protective equipment.
Other information	Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and materials for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Take up mechanically and collect in suitable container for disposal. After cleaning, flush away traces with water.

Section 7, Handling and Storage

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Avoid contact with eyes. Avoid breathing vapors or mists. Contents under pressure. Do not puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions	Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep containers tightly closed in a dry, cool and well-ventilated place.
Incompatible products	Incompatible with strong acids and bases. Incompatible with oxidizing agents.
Aerosol Level	3

KIMBALL MIDWEST

Section 8, Exposure Controls/Personal Protection

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Exposure controls

Engineering Measures Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tightly fitting safety goggles. Face-shield.

Skin and body protection Chemical resistant apron.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin, eyes and clothing. For environmental protection, remove and wash all contaminated protective equipment before re-use. Wear suitable gloves and eye/face protection.

Section 9, Physical and Chemical Properties

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical state	Aerosol		
Appearance	No information available	**Odor**	Solvent
Color	amber	**Odor Threshold**	No information available

Property	**Values**	**Remarks • Methods**
pH	0	
Melting/freezing point	No information available	
Boiling point/boiling range	No information available	
Flash Point	-97 °C / -142 °F	Based on propellant
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
upper flammability limit	No information available	
lower flammability limit	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific Gravity	No information available	
Water solubility	Practically insoluble	
Autoignition temperature	No information available	Not applicable
Explosive properties	No information available	

Other information

VOC Content(%)	60.55

Section 10, Stability and Reactivity

10. STABILITY AND REACTIVITY

Reactivity
No data available

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
None under normal processing.

Conditions to Avoid
Heat, flames and sparks. Exposure to air or moisture over prolonged periods.

Incompatible Materials
Incompatible with strong acids and bases. Incompatible with oxidizing agents.

Hazardous Decomposition Products
Thermal decomposition can lead to release of irritating gases and vapors.

KIMBALL MIDWEST

Section 11, Toxicological Information

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known information

Inhalation There is no data available for this product.

Eye contact There is no data available for this product.

Skin contact There is no data available for this product.

Ingestion There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
HEXANE 64742-49-0	> 5000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	73680 ppm (Rat) 4 h
PETROLATUM 8009-03-8		= 3600 mg/kg (Rabbit)	
HYDROTREATED HEAVY NAPHTHENIC 64742-48-9	> 5000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.
Germ Cell Mutagenicity No information available.
Carcinogenicity The table below indicates whether each agency has evaluated a listed ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
NAPHTHENIC OIL, SEVERLY HYDROT 64742-52-5	A2	Group 1		X

ACGIH: (American Conference of Governmental Industrial Hygienists)
A2 - Suspected Human Carcinogen
IARC: (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
OSHA: (Occupational Safety & Health Administration)
X - Present

Reproductive toxicity No information available.
Specific target organ systemic toxicity (single exposure) No information available.
Specific target organ systemic toxicity (repeated exposure) No information available.
Chronic toxicity Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risks of irreversible effects.
Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

Unknown Aquatic Toxicity 134.59425% of the mixture consists of ingredient(s) of unknown toxicity
The following values are calculated based on chapter 3.1 of the GHS document .

KIMBALL MIDWEST

Section 12, Ecological Information*

12. ECOLOGICAL INFORMATION

INTER-LUBE PENETRATING GREASE-80-925 Revision Date 01-Aug-2013

Ecotoxicity

76.64653% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
NAPHTHENIC OIL, SEVERLY HYDROT 64742-52-5		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50
HEXANE 64742-49-0				2.6: 96 h Chaetogammarus marinus mg/L LC50
HYDROTREATED HEAVY NAPHTHENIC 64742-48-9		2200: 96 h Pimephales promelas mg/L LC50		2.6: 96 h Chaetogammarus marinus mg/L LC50

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Chemical Name	log Pow
PROPANE/ISOBUTANE/N-BUTANE 68476-86-8	<=2.8

*Since other agencies regulate this information OSHA will not be enforcing sections 12-15

Section 13, Disposal Considerations*

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods	This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).
Contaminated packaging	Do not re-use empty containers.
US EPA Waste Number	D002
California Hazardous Waste Codes	791

This product contains one or more substances that are listed with the State of California as a hazardous waste.

KIMBALL MIDWEST

Section 14, Transport Information*

14. TRANSPORT INFORMATION	
DOT Ground	Consumer Commodity, ORM-D or LIMITED QUANTITY
IATA	UN1950, Aerosols, Flammable, 2.1, LTD. QTY
IMDG	UN1950, Aerosols, Flammable, 2.1, LTD. QTY

KIMBALL MIDWEST

Section 15, Regulatory Information*

15. REGULATORY INFORMATION

International Inventories

TSCA *- United States Toxic Substances Control Act Section 8(b) Inventory*
DSL/NDSL *- Canadian Domestic Substances List/Non-Domestic Substances List*

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any known Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
POLYTETRAFLUOROETHYLENE 9002-84-0			X
ORGANOPHOSPATE ESTER,ZINC SALT 68649-42-3	X		X

U.S. EPA Label Information

Section 16, Other Information

16. OTHER INFORMATION

NFPA	**Health Hazard** 3	**Flammability** 4	**Instability** 0	**Physical and chemical hazards** -
HMIS	**Health Hazard** 3*	**Flammability** 4	**Physical Hazard** 0	**Personal protection** X

Chronic Hazard Star Legend *Chronic Health Hazard Repeated or prolonged exposure may cause central nervous system damage*

Prepared By Regulatory Affairs
Issuing date 01-Aug-2013
Revision Date 01-Aug-2013
Revision Note
No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

KIMBALL MIDWEST

Globally Harmonized Systems (GHS) Labeling Elements

KIMBALL MIDWEST

GHS Label Requirements

SAMPLE LABEL

PRODUCT IDENTIFIER

CODE _____
Product Name _____

SUPPLIER IDENTIFICATION

Company Name_____
Street Address _____
City _____ State _____
Postal Code _____ Country _____
Emergency Phone Number _____

PRECAUTIONARY STATEMENTS

Keep container tightly closed. Store in cool, well ventilated place that is locked.
Keep away from heat/sparks/open flame. No smoking.
Only use non-sparking tools.
Use explosion-proof electrical equipment.
Take precautionary measure against static discharge.
Ground and bond container and receiving equipment.
Do not breathe vapors.
Wear Protective gloves.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.
Dispose of in accordance with local, regional, national, international regulations as specified.

In Case of Fire: use dry chemical (BC) or Carbon dioxide (CO_2) fire extinguisher to extinguish.

First Aid
If exposed call Poison Center.
If on skin (on hair): Take off immediately any contaminated clothing. Rinse skin with water.

HAZARD PICTOGRAMS

SIGNAL WORD

Danger

HAZARD STATEMENT

Highly flammable liquid and vapor.
May cause liver and kidney damage.

SUPPLEMENTAL INFORMATION

Directions for use

_____
_____
_____

Fill weight: _____ Lot Number _____
Gross weight: _____ Fill Date: _____
Expiration Date: _____

KIMBALL MIDWEST

Product Identifier

How the hazardous chemical is identified. This can be (but is not limited to) the chemical name, code number or batch number.

- The manufacturer, importer or distributor can decide the appropriate product identifier
- The same product identifier must be both on the label and in section 1 of the SDS

KIMBALL MIDWEST

HCS Pictograms and Hazards

A symbol to convey specific information about the hazards of a chemical.

- Under new GHS standards hazards must have a white background with a red border and a black hazard symbol
- When there are multiple hazards different pictograms are used to identify each hazard

KIMBALL MIDWEST

HCS Pictograms and Hazards

Health Hazard

- Carcinogen
- Mutagenicity
- Reproductive Toxicity
- Respiratory Sensitizer
- Target Organ Toxicity
- Aspiration Toxicity

Flame

- Flammables
- Pyrophorics
- Self-Heating
- Emits Flammable Gas
- Self-Reactives
- Organic Peroxides

Exclamation Mark

- Irritant (skin and eye)
- Skin Sensitizer
- Acute Toxicity (harmful)
- Narcotic Effects
- Respiratory Tract Irritant
- Hazardous to Ozone Layer (Non Mandatory)

HCS Pictograms and Hazards

Gas Cylinder

- Gases under Pressure

Corrosion

- Skin Corrosion/ burns
- Eye Damage
- Corrosive to Metals

Exploding Bomb

- Explosives
- Self-Reactives
- Organic Peroxides

KIMBALL MIDWEST

HCS Pictograms and Hazards

Flame over Circle

- Oxidizers

Skull and Crossbones

- Acute Toxicity (fatal or toxic)

Environment (Non Mandatory)

- Aquatic Toxicity

KIMBALL MIDWEST

Signal Words

Used to indicate the relative level of severity of hazard and alert the reader to a potential hazard on the label

- In order to simplify the hazard warning, there are now only two signal words
- “Danger” is used for the more severe hazards

Danger

May cause fire or explosion; strong oxidizer
Causes severe skin burns and eye damage

- “Warning” is used for the less severe hazards

Warning

Harmful if swallowed

Hazard Statements

A statement assigned to a hazard class and category that describes the nature of the hazard(s) of a chemical, including, where appropriate, the degree of hazard.

- All of the applicable hazard statements must appear on the label
- Hazard statements are specific to the classification categories
- Example: “Causes damage to kidneys through prolonged or repeated exposure when absorbed through the skin”

KIMBALL MIDWEST

Precautionary Statements

A phrase that describes recommended measures to be taken to minimize or prevent adverse effects resulting from exposure to a hazardous chemical, or improper storage or handling of a hazardous chemical

- With similar precautionary statements, the one providing the most protective information will be included on the label

- Example 1: *Keep away from heat, sparks, and open flame. No smoking.*
- Example 2:*Wash hands thoroughly after handling.*

KIMBALL MIDWEST

Why is this important?

- Information on the label and SDS can be used to ensure proper storage of hazardous chemicals
- The label and SDS may be used to quickly locate information regarding first aid when needed by employees or emergency personnel

KIMBALL MIDWEST

Location and Source

- Current Material Safety Data Sheets and New Safety Data Sheets (when implemented) can be found at: https://www.kimballmidwest.com/Catalog/MSDS.aspx

- Occupational Safety & Health Administration. (2012). Hazard Communication. Retrieved from https://www.osha.gov/dsg/hazcom/index.html

KIMBALL MIDWEST

Thank you

Additional Questions Contact:
OSHA: 1-800-321-OSHA (6742)
or your
Kimball Midwest Representative

KIMBALL MIDWEST