Material Safety Data Sheet

LANXESS
Energizing Chemistry

1. Product and company identification

Product name : BUNA VSL 5025-2 HM

Supplier/Manufacturer : LANXESS Corporation
Product Safety & Regulatory Affairs
111 RIDC Park West Drive
Pittsburgh, PA 15275-1112
USA

For information: US/Canada (800) LANXESS
International +1 412 809 1000

In case of emergency : Chemtrec (800) 424-9300
International (703) 527-3887
Lanxess Emergency Phone (800) 410-3063.

Material Number : 56143223

Chemical family : Synthetic Rubber - Oil Extended

2. Hazards identification

Physical state : Solid. [rubber bales]

Odor : Faint odor.

Color : Brown.

Emergency overview : CAUTION!

NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED. MAY CAUSE MECHANICAL IRRITATION (ABRASION). TOXIC AND IRRITATING GASES/FUMES MAY BE GIVEN OFF DURING BURNING OR THERMAL DECOMPOSITION. CONTACT WITH HOT MATERIAL WILL CAUSE THERMAL BURNS. TERMPERATURES ABOVE 392 F (200C), THE PRODUCT DECOMPOSES EXOTHERMICALLY WITH POSSIBILITY OF IGNITION.

Medical conditions aggravated by over-exposure : None known.

Potential acute health effects / Over-exposure signs/symptoms

Inhalation : Inhalation is unlikely due to the low vapor pressure. May cause mechanical irritation (abrasion).

Ingestion : No known significant effects or critical hazards.

Skin : May cause mechanical irritation (abrasion). Contact with hot material will cause thermal burns.

Eyes : May cause mechanical irritation (abrasion).

Potential chronic health effects

Chronic effects : No known significant effects or critical hazards.

Carcinogenicity : The International Agency for Research on Cancer (IARC - Monographs Vol. 33, 1984) has reported that there is no evidence that severely solvent-refined mineral oils are carcinogenic to experimental animals and the available data on severely hydrotreated mineral oils are inadequate to permit an evaluation of their carcinogenicity to experimental animals.No carcinogenetic substances as defined by IARC, NTP and/or OSHA.

3. Composition/information on ingredients

The following potentially hazardous ingredient(s) are used to formulate this product. As supplied, the ingredient(s) are bound in a polymer matrix. Because they are bound in the matrix, they are not expected to create any unusual hazards when handled and processed. according to good manufacturing and industrial hygiene practices and the guidelines provided by this MSDS.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Name	CAS number	%
Distillates, petroleum, solvent-refined heavy par affinic	64741-88-4	20 - 30

Other Ingredients:

The following potentially hazardous ingredient(s) are contained at levels below disclosure requirements and are provided for informational purposes only.
The concentrations reported below in units of parts per million (ppm) or parts per billion (ppb) are maximum values.
Hexane CAS# 110-54-3 <70ppm

4. First aid measures

Eye contact : Check for and remove any contact lenses. In case of contact flush eyes with plenty of luke warm water. Get medical attention if symptoms occur.

Skin contact : Wash with plenty of soap and water. Get medical attention if symptoms occur. Get medical attention if thermal burns occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation : If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Notes to physician : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Extinguishing media

Suitable : In case of fire, use water spray (fog), foam or dry chemical.

Not suitable : Carbon dioxide (CO_2).

Special exposure hazards : Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Special remarks on fire hazards : The product decomposes exothermically with possibility of ignition.

6. Accidental release measures

Personal precautions : No action shall be taken involving any personal risk or without suitable training.

Spill and Leak Procedures. : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. If molten, allow material to cool and put into an appropriate container for disposal.

7. Handling and storage

Handling : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Storage : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Storage temperature: : Do not store above the following temperature: 35°C

8. Exposure controls/personal protection

Ingredient	Exposure limits
Distillates, petroleum, solvent-refined heavy par affinic	**ACGIH TLV (United States, 2/2010).** TWA: 5 mg/m³ 8 hour(s). Form: Inhalable fraction **OSHA PEL (United States, 6/2010).** TWA: 5 mg/m³ 8 hour(s).

Hexane (110-54-3)
U.S. ACGIH Threshold Limit Values
Time Weighted Average (TWA): 50 ppm

OSHA PEL
Time Weighted Average (TWA): 1800 ppm, 500 ppm

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures : Engineering controls should be sufficient to ensure airborne levels do not approach or exceed the exposure limit value for residuals. Thermal processing operations should be ventilated to control gases and fumes given off during processing.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory : Although no exposure limit has been established for this product, the OSHA PEL for Particulates Not Otherwise Regulated (PNOR) of 15 mg/m3 - total dust, 5 mg/m3 - respirable fraction is recommended. In addition, the ACGIH recommends 3 mg/m3 - respirable particles and 10 mg/m3 - inhalable particles for Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS).

Hands : When handling hot material, wear heat-resistant protective gloves that are able to withstand the temperature of molten product.

Eyes : safety glasses with side-shields

Skin : Wear cloth work clothing including long pants and long-sleeved shirts. Suitable protective footwear.

9. Physical and chemical properties

Physical state : Solid. [rubber bales]

Color : Brown.

Odor : Faint odor.

Density : 0.95 g/cm^3

Solubility : Insoluble in the following materials: cold water.

10. Stability and reactivity

Chemical stability : The product is stable.

Conditions to avoid : Keep away from heat and direct sunlight.

Materials to avoid : Oxidizing agents

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Possibility of hazardous reactions : Exposure to high temperatures causes exothermic reaction or decomposition.

11. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Distillates, petroleum, solvent-refined heavy par affinic	LD50 Dermal	Rabbit	>5000 mg/kg	-
Distillates, petroleum, solvent-refined heavy par affinic	LD50 Oral	Rat	5000 mg/kg	-

Chronic toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Distillates, petroleum, solvent-refined heavy par affinic	Chronic NOAEL Dermal	Rabbit - Male, Female	>1000 mg/kg	28 days; 5 days per week

Irritation/Corrosion

Skin : Distillates, petroleum, solvent-refined heavy par affinic:Slight irritant , Rabbit

Eyes : Distillates, petroleum, solvent-refined heavy par affinic:Slight irritant , Rabbit

Sensitizer

Product/ingredient name	Route of exposure	Species	Result
Distillates, petroleum, solvent-refined heavy par affinic	skin	Guinea pig	Not sensitizing

Skin : Distillates, petroleum, solvent-refined heavy par affinic:Non-sensitizer.

Carcinogenicity

Product/ingredient name	CAS #	IARC	NTP	OSHA
Distillates, petroleum, solvent-refined heavy par affinic	64741-88-4	1 Carcinogenic to humans	Proven.	Not classified.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Distillates, petroleum, solvent-refined heavy par affinic	Ames test	Experiment: In vitro Subject: Bacteria Metabolic activation: +/-	Negative
	Cytogenetic assay	Experiment: In vivo Subject: Mammalian-Animal	Negative

12. Ecological information

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Distillates, petroleum, solvent-refined heavy par affinic	Acute EC50 >1000 mg/l	Daphnia - Daphnia magna	48 hours
	Acute EC50 >1000 mg/l	Algae - Desmodesmus subspicatus	96 hours
	Acute LC50 >5000 mg/l	Fish - Oncorhynchus mykiss	96 hours

13. Disposal considerations

Waste disposal : Waste disposal should be in accordance with existing federal, state, provincial and/or local environmental controls. The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way.

Empty Container Precautions. : Recondition or dispose of empty container in accordance with govermental regulations.

RCRA classification : : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	-	-	-	-		Not regulated.
IMDG Class	-	-	-	-		Not regulated.
IATA-DGR Class	-	-	-	-		Not regulated.

PG* : Packing group

RQ : 0 lbs

15. Regulatory information

HAZCOM Standard Status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

SARA Section 311/312 Hazard Categories : None

Ingredient name	CAS number	Concentration (%)

SARA Title III Section 302 Extremely Hazardous Substances : None

Ingredient name	CAS number	Concentration (%)

SARA Title III Section 313 Toxic Chemicals : None

15. Regulatory information

	Ingredient name	CAS number	RQ
US EPA CERCLA Hazardous Substances (40 CFR 403) :	None		

State regulations

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropraite agency in your state.

Ingredient name	CAS number	State Code	Concentration (%)
Distillates, petroleum, solvent-refined heavy par affinic	64741-88-4	NJ - HS, PA - RTK HS	15 - 40
Styrene-Butadiene Copolymer	9003-55-8		60 - 100

Massachusetts Substances: MA - S
Massachusetts Extraordinary Hazardous Substances: MA - Extra HS
New Jersey Hazardous Substances: NJ - HS
Pennsylvania RTK Hazardous Substances: PA - RTK HS
Pennsylvania Special Hazardous Substances: PA - Special HS

California Prop. 65

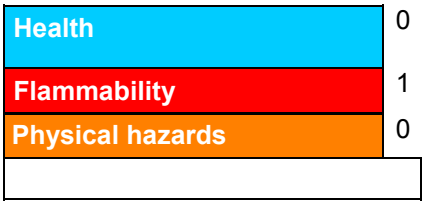
WARNING: This product contains a chemical known to the State of California to cause cancer.

Ingredient name	CAS #	Concentration (%)	Cancer	Reproductive
Distillates, petroleum, solvent-refined heavy par affinic	64741-88-4	15 - 40	Yes	

U.S. Toxic Substances Control Act : Listed on the TSCA Inventory.

16. Other information

Hazardous Material Information System :



0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme
***=Chronic**

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.) :

0= Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

LANXESS' method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by LANXESS as a customer service.

16. Other information

Contact person	:	Product Safety and Regulatory Affairs
Date of issue	:	09-07-2011
Date of previous issue	:	09-07-2011
Version	:	1.01

◤ **Indicates information that has changed from previously issued version.**

Notice to reader

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