# **SAFETY DATA SHEET**

S00101000

## Section 1. Identification

Product name	: LU™101 Food Grade White Grease Aerosol
Product code	: S00101000
Other means of identification	: Not available.
Product type	: Aerosol.
Relevant identified uses of t	he substance or mixture and uses advised against
Paint or paint related material.	
Manufacturer	: Sprayon Products Group 101 W. Prospect Avenue, Cleveland, Ohio 44115
National contact	: Sprayon Products 180 Brunel Road Mississauga, Ontario L4Z 1T5 Canada
Emergency telephone number of the company	: US / Canada: (800) 424-9300 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year
Product Information Telephone Number	: US / Canada: (800) 247-3266 Mexico: Not Available
Transportation Emergency Telephone Number	: US / Canada: (800) 424-9300 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

## Section 2. Hazards identification

Classification of the substance or mixture	<ul> <li>FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas SKIN CORROSION/IRRITATION - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1</li> </ul>
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 34.6% (oral), 89.1% (dermal), 63.9% (inhalation)
GHS label elements	
Hazard pictograms	
Signal word	: Danger

# Section 2. Hazards identification

Hazard statements	: Extremely flammable aerosol.
	Contains gas under pressure; may explode if heated.
	May be fatal if swallowed and enters airways.
	Causes skin irritation.
	May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child.
	May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Wash thoroughly after handling. Pressurized container: Do not pierce or burn, even after use.
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention.
Storage	<ul> <li>Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Keep container tightly closed.</li> </ul>
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Supplemental label elements	DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY. Please refer to the SDS for additional information. Keep out of reach of children. Keep
	upright in a cool, dry place. Do not discard empty can in trash compactor.
Hazards not otherwise classified	: None known.

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

### **CAS number/other identifiers**

Ingredient name	% by weight	CAS number	
Paraffinic Mineral Oil	27.95	8042-47-5	
Hexane	25.18	110-54-3	
Propane	13.6	74-98-6	
2-Methylpentane	11.66	107-83-5	
Butane	6.4	106-97-8	
3-Methylpentane	4.32	96-14-0	
2,3-Dimethylbutane	3.67	79-29-8	
Cyclohexane	1.44	110-82-7	
Zinc Oxide	1.35	1314-13-2	
2,2-Dimethylbutane	1.3	75-83-2	
Cyclopentane	0.43	287-92-3	

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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## Section 3. Composition/information on ingredients

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

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

<b>Description of necessary fin</b>	rst aid measures
Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

Potential acute health ef	fects
Eye contact	: No known significant effects or critical hazards.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation.
Ingestion	: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
Over-exposure signs/syr	nptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths
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## Section 4. First aid measures

	skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate	modical attention and special treatment needed, if necess

Indication of immediate med	lical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### See toxicological information (Section 11)

## Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters Remark	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> <li>Flammable aerosol.</li> </ul>

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## Section 6. Accidental release measures

Personal precautions, protec	Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.			
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".			
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.			
Methods and materials for co	ntainment and cleaning up			
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.			
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.			

# Section 7. Handling and storage

### Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid breathing gas. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.
Advice on general occupational hygiene	: 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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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### Section 7. Handling and storage

### including any incompatibilities

**Conditions for safe storage,** : Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### **Control parameters**

**Occupational exposure limits (OSHA United States)** 

	CAS #	Exposure limits
Paraffinic Mineral Oil	8042-47-5	OSHA PEL (United States, 5/2018). [Oil mist, mineral] TWA: 5 mg/m <sup>3</sup> 8 hours. ACGIH TLV (United States, 1/2023). [Mineral Oil, pure, highly and severely refined] TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2020). [OIL MIST MINERAL] TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist
Hexane	110-54-3	ACGIH TLV (United States, 1/2023). Absorbed through skin. TWA: 50 ppm 8 hours. NIOSH REL (United States, 10/2020). TWA: 50 ppm 10 hours. TWA: 180 mg/m <sup>3</sup> 10 hours. OSHA PEL (United States, 5/2018). TWA: 500 ppm 8 hours. TWA: 1800 mg/m <sup>3</sup> 8 hours.
Propane	74-98-6	<ul> <li>NIOSH REL (United States, 10/2020).</li> <li>TWA: 1000 ppm 10 hours.</li> <li>TWA: 1800 mg/m<sup>3</sup> 10 hours.</li> <li>OSHA PEL (United States, 5/2018).</li> <li>TWA: 1000 ppm 8 hours.</li> <li>TWA: 1800 mg/m<sup>3</sup> 8 hours.</li> <li>ACGIH TLV (United States, 1/2023). Oxyget</li> <li>Depletion [Asphyxiant]. Explosive potentia</li> </ul>
2-Methylpentane	107-83-5	ACGIH TLV (United States, 1/2023). [Hexane isomers, other than n-Hexane] TWA: 500 ppm 8 hours. TWA: 1760 mg/m <sup>3</sup> 8 hours. STEL: 1000 ppm 15 minutes. STEL: 3500 mg/m <sup>3</sup> 15 minutes. NIOSH REL (United States, 10/2020). [HEXANE ISOMERS EXCLUDING n- HEXANE] TWA: 100 ppm 10 hours. TWA: 350 mg/m <sup>3</sup> 10 hours. CEIL: 510 ppm 15 minutes. CEIL: 1800 mg/m <sup>3</sup> 15 minutes.
Butane	106-97-8	NIOSH REL (United States, 10/2020). TWA: 800 ppm 10 hours. TWA: 1900 mg/m <sup>3</sup> 10 hours.

		ACGIH TLV (United States, 1/2023). [Butane isomers] Explosive potential. STEL: 1000 ppm 15 minutes.	
3-Methylpentane	96-14-0	ACGIH TLV (United States, 1/2023). [Hexane isomers, other than n-Hexane] TWA: 500 ppm 8 hours. TWA: 1760 mg/m <sup>3</sup> 8 hours. STEL: 1000 ppm 15 minutes. STEL: 3500 mg/m <sup>3</sup> 15 minutes. NIOSH REL (United States, 10/2020). [HEXANE ISOMERS EXCLUDING n- HEXANE] TWA: 100 ppm 10 hours. TWA: 350 mg/m <sup>3</sup> 10 hours. CEIL: 510 ppm 15 minutes. CEIL: 1800 mg/m <sup>3</sup> 15 minutes.	
2,3-Dimethylbutane	79-29-8	ACGIH TLV (United States, 1/2023). [Hexane isomers, other than n-Hexane] TWA: 500 ppm 8 hours. TWA: 1760 mg/m <sup>3</sup> 8 hours. STEL: 1000 ppm 15 minutes. STEL: 3500 mg/m <sup>3</sup> 15 minutes. NIOSH REL (United States, 10/2020). [HEXANE ISOMERS EXCLUDING n- HEXANE] TWA: 100 ppm 10 hours. TWA: 350 mg/m <sup>3</sup> 10 hours. CEIL: 510 ppm 15 minutes. CEIL: 1800 mg/m <sup>3</sup> 15 minutes.	
Cyclohexane	110-82-7	ACGIH TLV (United States, 1/2023). TWA: 100 ppm 8 hours. NIOSH REL (United States, 10/2020). TWA: 300 ppm 10 hours. TWA: 1050 mg/m <sup>3</sup> 10 hours. OSHA PEL (United States, 5/2018). TWA: 300 ppm 8 hours. TWA: 1050 mg/m <sup>3</sup> 8 hours.	
Zinc Oxide	1314-13-2	<ul> <li>NIOSH REL (United States, 10/2020). CEIL: 15 mg/m<sup>3</sup> Form: Dust TWA: 5 mg/m<sup>3</sup> 10 hours. Form: Dust and fumes STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Fume OSHA PEL (United States, 5/2018). TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Fume TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust ACGIH TLV (United States, 1/2023). TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Respirable fraction</li> </ul>	
2,2-Dimethylbutane	75-83-2	ACGIH TLV (United States, 1/2023). [Hexane isomers, other than n-Hexane] TWA: 500 ppm 8 hours. TWA: 1760 mg/m <sup>3</sup> 8 hours. STEL: 1000 ppm 15 minutes.	

Cyclopentane	287-92-3	STEL: 3500 mg/m <sup>3</sup> 15 minutes. NIOSH REL (United States, 10/2020). [HEXANE ISOMERS EXCLUDING n- HEXANE] TWA: 100 ppm 10 hours. TWA: 350 mg/m <sup>3</sup> 10 hours. CEIL: 510 ppm 15 minutes. CEIL: 1800 mg/m <sup>3</sup> 15 minutes. ACGIH TLV (United States, 1/2023). Explosive potential. TWA: 1000 ppm 8 hours. NIOSH REL (United States, 10/2020).
		TWA: 600 ppm 10 hours. TWA: 1720 mg/m <sup>3</sup> 10 hours.

### Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits	
Paraffinic Mineral Oil	8042-47-5	<ul> <li>CA British Columbia Provincial (Canad 6/2022). [Oil mist - mineral, severely refined]</li> <li>TWA: 1 mg/m<sup>3</sup> 8 hours.</li> <li>CA Alberta Provincial (Canada, 6/2018)</li> <li>[Oil mist, mineral]</li> <li>8 hrs OEL: 5 mg/m<sup>3</sup> 8 hours. Form: Mist 15 min OEL: 10 mg/m<sup>3</sup> 15 minutes. Form Mist</li> </ul>	
Normal hexane	110-54-3	Mist CA Alberta Provincial (Canada, 6/2018). Absorbed through skin. 8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 176 mg/m <sup>3</sup> 8 hours. CA British Columbia Provincial (Canada, 6/2022). Absorbed through skin. TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). Absorbed through skin. TWA: 50 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). Absorbed through skin. TWAEV: 50 ppm 8 hours. TWAEV: 50 ppm 8 hours. TWAEV: 176 mg/m <sup>3</sup> 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin. STEL: 62.5 ppm 15 minutes. TWA: 50 ppm 8 hours.	
Normal propane	74-98-6	<ul> <li>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1000 ppm 8 hours.</li> <li>CA Quebec Provincial (Canada, 6/2022). TWAEV: 1000 ppm 8 hours. TWAEV: 1800 mg/m<sup>3</sup> 8 hours.</li> <li>CA Saskatchewan Provincial (Canada, 7/2013).</li> <li>STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours.</li> <li>CA British Columbia Provincial (Canada, 6/2022). Oxygen Depletion [Asphyxiant].</li> <li>Explosive potential.</li> </ul>	
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2-Methylpentane	107-83-5	<ul> <li>CA Ontario Provincial (Canada, 6/2019).</li> <li>Oxygen Depletion [Asphyxiant]. Explosive potential.</li> <li>CA Alberta Provincial (Canada, 6/2018).</li> <li>15 min OEL: 3500 mg/m<sup>3</sup> 15 minutes.</li> <li>8 hrs OEL: 1760 mg/m<sup>3</sup> 8 hours.</li> <li>15 min OEL: 1000 ppm 15 minutes.</li> <li>8 hrs OEL: 500 ppm 8 hours.</li> <li>CA British Columbia Provincial (Canada, 6/2022). [Hexane, all isomers except n-Hexane]</li> <li>TWA: 200 ppm 8 hours.</li> <li>CA Ontario Provincial (Canada, 6/2019).</li> <li>[Hexane isomers, other than n-hexane]</li> <li>TWA: 500 ppm 8 hours.</li> <li>STEL: 1000 ppm 15 minutes.</li> <li>CA Quebec Provincial (Canada, 6/2022).</li> <li>[Hexane (other isomers)]</li> <li>TWAEV: 500 ppm 8 hours.</li> <li>STEV: 1000 ppm 15 minutes.</li> <li>STEV: 1000 ppm 15 minutes.</li> <li>STEV: 3500 mg/m<sup>3</sup> 15 minutes.</li> <li>CA Saskatchewan Provincial (Canada, 7/2013). [Hexane other isomers]</li> <li>STEL: 1000 ppm 15 minutes.</li> <li>TWA: 500 ppm 8 hours.</li> </ul>
Butane	106-97-8	<ul> <li>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1000 ppm 8 hours.</li> <li>CA Quebec Provincial (Canada, 6/2022). TWAEV: 800 ppm 8 hours. TWAEV: 1900 mg/m<sup>3</sup> 8 hours.</li> <li>CA Saskatchewan Provincial (Canada, 7/2013). [Butane all isomers] STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours.</li> <li>CA British Columbia Provincial (Canada, 6/2022). [butane, all isomers] Explosive potential. STEL: 1000 ppm 15 minutes.</li> <li>CA Ontario Provincial (Canada, 6/2019).</li> <li>[Butane, All isomers] Explosive potential. STEL: 1000 ppm 15 minutes.</li> </ul>
3-Methylpentane	96-14-0	<ul> <li>CA Alberta Provincial (Canada, 6/2018).</li> <li>8 hrs OEL: 500 ppm 8 hours.</li> <li>15 min OEL: 1000 ppm 15 minutes.</li> <li>15 min OEL: 3500 mg/m<sup>3</sup> 15 minutes.</li> <li>8 hrs OEL: 1760 mg/m<sup>3</sup> 8 hours.</li> <li>CA British Columbia Provincial (Canada, 6/2022). [Hexane, all isomers except n-Hexane]</li> <li>TWA: 200 ppm 8 hours.</li> <li>CA Ontario Provincial (Canada, 6/2019).</li> <li>[Hexane isomers, other than n-hexane]</li> <li>TWA: 500 ppm 8 hours.</li> <li>STEL: 1000 ppm 15 minutes.</li> <li>CA Quebec Provincial (Canada, 6/2022).</li> </ul>

		[Hexane (other isomers)] TWAEV: 500 ppm 8 hours. TWAEV: 1760 mg/m <sup>3</sup> 8 hours. STEV: 1000 ppm 15 minutes. STEV: 3500 mg/m <sup>3</sup> 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). [Hexane other isomers] STEL: 1000 ppm 15 minutes. TWA: 500 ppm 8 hours.
2,3-Dimethylbutane	79-29-8	CA Alberta Provincial (Canada, 6/2018). [Dimethylbutane (all isomers, except n- Hexane)] 8 hrs OEL: 1760 mg/m <sup>3</sup> 8 hours. 15 min OEL: 1000 ppm 15 minutes. 15 min OEL: 3500 mg/m <sup>3</sup> 15 minutes. 8 hrs OEL: 500 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). [Hexane, all isomers except n- Hexane] TWA: 200 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). [Hexane isomers, other than n-hexane] TWA: 500 ppm 8 hours. STEL: 1000 ppm 15 minutes. CA Quebec Provincial (Canada, 6/2022). [Hexane (other isomers)] TWAEV: 500 ppm 8 hours. STEV: 1000 ppm 15 minutes. STEV: 1000 ppm 15 minutes. STEV: 3500 mg/m <sup>3</sup> 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). [Hexane other isomers] STEL: 1000 ppm 15 minutes. TWA: 500 ppm 8 hours.
Cyclohexane	110-82-7	<ul> <li>CA Alberta Provincial (Canada, 6/2018).</li> <li>8 hrs OEL: 344 mg/m<sup>3</sup> 8 hours.</li> <li>8 hrs OEL: 100 ppm 8 hours.</li> <li>CA British Columbia Provincial (Canada, 6/2022).</li> <li>TWA: 100 ppm 8 hours.</li> <li>CA Ontario Provincial (Canada, 6/2019).</li> <li>TWA: 100 ppm 8 hours.</li> <li>CA Quebec Provincial (Canada, 6/2022).</li> <li>TWAEV: 100 ppm 8 hours.</li> <li>CA Saskatchewan Provincial (Canada, 7/2013).</li> <li>STEL: 150 ppm 15 minutes.</li> <li>TWA: 100 ppm 8 hours.</li> </ul>
Zinc Oxide	1314-13-2	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable 15 min OEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Respirable CA British Columbia Provincial (Canada, 6/2022). TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable STEL: 10 mg/m <sup>3</sup> 15 minutes. Form:
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		Respirable <b>CA Quebec Provincial (Canada, 6/2022).</b> TWAEV: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable dust. STEV: 10 mg/m <sup>3</sup> 15 minutes. Form: Respirable dust. <b>CA Ontario Provincial (Canada, 6/2019).</b> TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable particulate matter. STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Respirable particulate matter. <b>CA Saskatchewan Provincial (Canada,</b> <b>7/2013).</b> STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: respirable dust and fume TWA: 2 mg/m <sup>3</sup> 8 hours. Form: respirable dust and fume
Neohexane	75-83-2	<ul> <li>CA Alberta Provincial (Canada, 6/2018).</li> <li>[Dimethylbutane (all isomers, except n-Hexane)]</li> <li>8 hrs OEL: 1760 mg/m<sup>3</sup> 8 hours.</li> <li>15 min OEL: 1000 ppm 15 minutes.</li> <li>15 min OEL: 3500 mg/m<sup>3</sup> 15 minutes.</li> <li>8 hrs OEL: 500 ppm 8 hours.</li> <li>CA British Columbia Provincial (Canada, 6/2022). [Hexane, all isomers except n-Hexane]</li> <li>TWA: 200 ppm 8 hours.</li> <li>CA Ontario Provincial (Canada, 6/2019).</li> <li>[Hexane isomers, other than n-hexane]</li> <li>TWA: 500 ppm 8 hours.</li> <li>STEL: 1000 ppm 15 minutes.</li> <li>CA Quebec Provincial (Canada, 6/2022).</li> <li>[Hexane (other isomers)]</li> <li>TWAEV: 500 ppm 8 hours.</li> <li>STEV: 1760 mg/m<sup>3</sup> 8 hours.</li> <li>STEV: 1000 ppm 15 minutes.</li> <li>STEV: 3500 mg/m<sup>3</sup> 15 minutes.</li> <li>CA Saskatchewan Provincial (Canada, 7/2013). [Hexane other isomers]</li> <li>STEL: 1000 ppm 15 minutes.</li> <li>TWA: 500 ppm 8 hours.</li> </ul>

#### **Occupational exposure limits (Mexico)**

Ingredient name CAS #		Exposure limit	ts
Paraffinic Mineral Oil	8042-47-5	[Highly refined exception of c	S-2014 (Mexico, 4/2016). I mineral oils, mist, with the utting fluids] <sup>3</sup> 8 hours. Form: mist
Hexane	110-54-3	0	S-2014 (Mexico, 4/2016). ugh skin.
2-Methylpentane	107-83-5	NOM-010-STPS	<b>S-2014 (Mexico, 4/2016).</b> pm 15 minutes.
3-Methylpentane	96-14-0		S-2014 (Mexico, 4/2016).
ate of issue/Date of revision : 4/19/20	24 Date of previous issue	: 1/23/2024	Version : 14.01 11/20
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		STEL: 1000 ppm 15 minutes. TWA: 500 ppm 8 hours.
2,3-Dimethylbutane	79-29-8	NOM-010-STPS-2014 (Mexico, 4/2016).
		STEL: 1000 ppm 15 minutes.
		TWA: 500 ppm 8 hours.
Cyclohexane	110-82-7	NOM-010-STPS-2014 (Mexico, 4/2016).
		TWA: 100 ppm 8 hours.
Zinc Oxide	1314-13-2	NOM-010-STPS-2014 (Mexico, 4/2016).
		TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
		fraction
		STEL: 10 mg/m <sup>3</sup> 15 minutes. Form:
		Respirable fraction
2,2-Dimethylbutane	75-83-2	NOM-010-STPS-2014 (Mexico, 4/2016).
		STEL: 1000 ppm 15 minutes.
		TWA: 500 ppm 8 hours.

### **Biological exposure indices (United States)**

Ingredient name	Exposure indices
Hexane	ACGIH BEI (United States, 1/2023) BEI: 0.5 mg/l, 2,5-hexanedion [in urine]. Sampling time: end of shift.
Cyclohexane	<b>ACGIH BEI (United States, 1/2023)</b> BEI: 50 mg/g creatinine, 1,2-cyclohexanediol [in urine]. Sampling time: end of shift at end of workweek.

### **Biological exposure indices (Canada)**

No exposure indices known.

#### **Biological exposure indices (Mexico)**

Ingredient name	Exposure indices
Hexane	Official Mexican STANDARD NOM- 047-SSA1-2011, Environmental Health- Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) BEI: 0.4 mg/L, 2,5-hexanedione [in urine]. Sampling time: at the end of the shift at the end of the work week.

Appropriate engineering : controls	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure : controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures	

#### Individual protection measures

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.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### **Appearance**

Physical state	: Liquid.
Color	: White.
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not applicable.
Melting point/freezing point	: Not available.
Boiling point, initial boiling point, and boiling range	: Not available.
Flash point	: Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]
Evaporation rate	: 9.1 (butyl acetate = 1)
Flammability	: Flammable aerosol.
Lower and upper explosion limit/flammability limit	: Lower: 1% Upper: 9.5%
Vapor pressure	: 101.3 kPa (760 mm Hg)
Relative vapor density	: 1.55 [Air = 1]
Relative density	: 0.69
Solubility(ies)	: · · · · · · · · · · · · · · · · · · ·

### **Section 9. Physical and chemical properties**

Media		Result
cold water		Not soluble
Partition coefficient: n- octanol/water	: Not	applicable.
Auto-ignition temperature	: Not available.	
Decomposition temperature	Not available.	
Viscosity	: Kinematic (40°C (104°F)): <20.5 mm²/s (<20.5 cSt)	
Molecular weight	: Not applicable.	
Aerosol product		
Type of aerosol	: Spra	ау
Heat of combustion	: 31.2	269 kJ/g

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Paraffinic Mineral Oil	LD50 Oral	Rat	>5000 mg/kg	-
Hexane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-
Butane	LC50 Inhalation Vapor	Rat	658000 mg/m <sup>3</sup>	4 hours
Cyclohexane	LD50 Oral	Rat	6240 mg/kg	-
Cyclopentane	LD50 Oral	Rat	11400 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Hexane Zinc Oxide	Eyes - Mild irritant Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit Rabbit	-	10 mg 24 hours 500 mg 24 hours 500 mg	- -

### Sensitization

Not available.

### Section 11. Toxicological information

### **Mutagenicity**

Not available.

### Carcinogenicity

Not available.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Hexane 2-Methylpentane	Category 3 Category 3	-	Narcotic effects Narcotic effects
3-Methylpentane 2,3-Dimethylbutane	Category 3	-	Narcotic effects
Cyclohexane	Category 3 Category 3	-	Narcotic effects
2,2-Dimethylbutane Cyclopentane	Category 3 Category 3	-	Narcotic effects Respiratory tract
	Category 3		irritation Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Hexane Cyclopentane	Category 2 Category 2	-	-

#### Aspiration hazard

Name	Result		
Paraffinic Mineral Oil	ASPIRATION HAZARD - Category 1		
Hexane	ASPIRATION HAZARD - Category 1		
2-Methylpentane	ASPIRATION HAZARD - Category 1		
3-Methylpentane	ASPIRATION HAZARD - Category 1		
2,3-Dimethylbutane	ASPIRATION HAZARD - Category 1		
Cyclohexane ASPIRATION HAZARD - Categ			
2,2-Dimethylbutane ASPIRATION HAZARD - Catego			
Cyclopentane	ASPIRATION HAZARD - Category 1		

# Information on the likely : Not available. routes of exposure

Potential acute health effec	<u>ts</u>		
Eye contact	:	No known significant effects or critical hazards.	
Inhalation	:	Can cause central nervous system (CNS) depression. dizziness.	May cause drowsiness or
Skin contact	:	Causes skin irritation.	
Ingestion	:	Can cause central nervous system (CNS) depression. enters airways.	May be fatal if swallowed and

### Symptoms related to the physical, chemical and toxicological characteristics

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	0
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure				
Short term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Long term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Potential chronic health effects				
Not available.				
General	: May cause damage to organs through prolonged or repeated exposure.			
Carcinogenicity	: No known significant effects or critical hazards.			
Mutagenicity	: No known significant effects or critical hazards.			
Teratogenicity	: No known significant effects or critical hazards.			
Developmental effects	: No known significant effects or critical hazards.			
Fertility effects	: Suspected of damaging fertility.			

### Numerical measures of toxicity Acute toxicity estimates Not available.

### Section 12. Ecological information

<u>Toxicity</u>				
Product/ingredient name	Result	Species		
Hexane Cyclohexane Zinc Oxide	Acute LC50 2500 µg/l Fresh water Acute LC50 4530 µg/l Fresh water Acute IC50 1.85 mg/l Marine water Acute LC50 98 µg/l Fresh water	Fish - <i>Pimephales promelas</i> Fish - <i>Pimephales promelas</i> Algae - <i>Skeletonema costatum</i> Daphnia - <i>Daphnia magna</i> - Neonate		
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss		

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Hexane	-	501.187	High
Cyclohexane Zinc Oxide	-	167 28960	Low High
Cyclopentane	-	70.8	Low

### Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Exposure 96 hours 96 hours 96 hours 48 hours

96 hours

### Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ΙΑΤΑ	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable	AEROSOLS
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Date of issue/Date of revision         : 4/19/2024         Date of previous issue         : 1/23/2024         Version         : 14.01         1           \$600101000         LU™101 Food Grade White Grease Aerosol         SHW-85-NA-GHS-CA         SHW-85-NA-GHS-CA         SHW-85-NA-GHS-CA					

Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	- ERG No.	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2). <b>ERG No.</b>	- ERG No.	-	<u>Emergency</u> <u>schedules</u> F-D, S U
	126	126	126		
	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.
Special precaution	conside mode o suitably to shipr of the p dangero	odal shipping descrip or container sizes. Th f transport (sea, air, or for that mode of tran nent, and compliance erson offering the pro ous goods must be tr all actions in case of	e presence of a ship etc.), does not indica isport. All packaging with the applicable oduct for transport. I ained on all of the ri	pping description for ate that the product i g must be reviewed f regulations is the so People loading and u sks deriving from the	a particular s packaged or suitability prior ble responsibility ınloading
ransport in bulk a IMO instruments	•	able.			
		hipping name	: Not available.		

#### **International regulations**

#### Montreal Protocol

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

International lists

Australia inventory (AIIC): Not determined.
 China inventory (IECSC): Not determined.
 Japan inventory (CSCL): Not determined.
 Japan inventory (ISHL): Not determined.
 Korea inventory (KECI): Not determined.
 New Zealand Inventory of Chemicals (NZIoC): Not determined.
 Philippines inventory (PICCS): Not determined.
 Taiwan Chemical Substances Inventory (TCSI): Not determined.
 Thailand inventory: Not determined.
 Turkey inventory: Not determined.
 Vietnam inventory: Not determined.

: 1/23/2024

### Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

	Justification			
FLAMMABLE AEROSOLS GASES UNDER PRESSU SKIN CORROSION/IRRIT, TOXIC TO REPRODUCTI SPECIFIC TARGET ORG/ Category 3 SPECIFIC TARGET ORG/ ASPIRATION HAZARD - C	On basis of test data On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method			
<u>History</u>				
Date of printing	: 4/19/2024			
Date of issue/Date of revision	: 4/19/2024			
Date of previous issue	: 1/23/2024			
Version	: 14.01			
Key to abbreviations	ey to abbreviations : ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient			

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

✓ Indicates information that has changed from previously issued version.

### Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is

### Section 16. Other information

responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.