SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION: PRODUCT IDENTIFIER/CHEMICAL IDENTITY

1.1 PRODUCT IDENTIFIER: **VELOIL CHAIN LUBE**

1.2 PRODUCT CODE: 0203710

1.3 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST:
RELEVANT IDENTIFIED USES: Spray-on motorcycle chain lubricant.
RESTRICTIONS ON USE: None known.

1.4 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:
SUPPLIER NAME: Products Development Manufacturing Co., Ltd
ADDRESS: 1273-4 Vichienchodok Rd., Tambol Mahachai, Amphur Mueng, Samutsakorn 74000 Thailand.
E-MAIL: contactus@veloil.com
TELEPHONE NUMBER: (662) 289 9789
1.5 EMERGENCY TEL. NUMBER: (662) 289 9789 (Technical Department)

SECTION 2 – HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE HAZARDOUS CHEMICAL:

GHS CLASSIFICATION HAZARD
CLASS & CATEGORY: The product is highly flammable and classified as hazardous under the Model Work Health and Safety Regulations.

2.2 LABEL ELEMENTS INCLUDING PRECAUTIONARY STATEMENTS:
SIGNAL WORD: Flammable.
HAZARD STATEMENTS: Classified as hazardous
PRECAUTIONARY STATEMENTS: Keep container in a well ventilated area
Keep away from sources of ignition – no smoking

2.3 OTHER HAZARDS: Excessive exposure may result in irritation to the skin or respiratory system as well as possible irritation to the eye. People with pre-existing skin conditions, such as eczema or dermatitis, should take precautions so as not to exacerbate the condition. As for all chemical products, persons should not expose open wounds, cuts, abrasions or irritated skin to this material.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	Concentration % W/W
Residual Oils(Petroleum), Solvent Dewaxed	64742-62-7	20 - 25%
Methylene Chloride	75-09-2	15 - 25 %
Propane/LPG	74-98-6	45 - 55 %
Complex mixture of additives	-	< 10

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SECTION 4 – FIRST AID MEASURES

4.1 DESCRIPTION OF NECESSARY FIRST AID MEASURES:

INGESTION: Rinse mouth out with water. Due to the blend of ingredients present, the manufacturer recommends that if swallowed, do NOT induce vomiting. If irritation develops or persists or vomiting has occurred after ingestion, seek medical assistance.

EYE*:* If in eyes, hold eyelids apart and flush the eye immediately with large amounts of running water. Continue flushing for at least 15 minutes or until advised to stop by a doctor. Check for contact lenses. If there are contact lenses, these should be removed under supervision. After flushing, if irritation develops or persists, seek medical assistance.

SKIN CONTACT: If skin or hair contact has occurred remove any contaminated clothing and footwear, wash skin or hair thoroughly with soap and water. If irritation develops or persists, consult a Doctor.

INHALATION: If affected, remove the patient from further exposure into fresh air, if safe to do so. If providing assistance, avoid exposure to yourself - only enter contaminated environments with adequate respiratory equipment. Once removed, lay patient down in a well-ventilated area and reassure them whilst waiting for medical assistance. If not breathing, provide artificial respiration and seek immediate medical assistance. If unconscious, place in a recovery position and seek immediate medical assistance.

PROTECTION FOR FIRST AIDERS: No person shall place themselves in a situation that is potentially hazardous to themselves. As the product is hydrocarbon based, if the person has ingested the product, do not use direct mouth-to-mouth resuscitation techniques. Always ensure that you are wearing gloves when dealing with first aid procedures involving chemicals and/or blood.

FIRST AID FACILITIES: Eye wash fountain and safety showers are recommended in the area where the product is used.

4.2 MOST IMPORTANT SYMPTOMS & EFFECTS, BOTH ACUTE & DELAYED, CAUSED BY EXPOSURE:

ACUTE: Ingestion or inhalation of vapours may lead to irritation of the mouth and respiratory tract. Eye contact may lead to localised burning, redness and tearing. Skin contact may lead to redness or itching.

CHRONIC: Skin contact may aggravate/exacerbate existing skin conditions, such as dermatitis.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NECESSARY:

ADVICE TO DOCTOR: Treat symptomatically. As the product is hydrocarbon based, if vomiting has occurred after ingestion, the patient should be monitored for adverse effects.

SECTION 5 – FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

SUITABLE MEDIA: Use extinguishing media appropriate for surrounding fire. Use carbon dioxide, foam, dry chemical or water fog/spray. Spray down fumes resulting from fire.

UNSUITABLE MEDIA: Avoid using full water jet directed at residual material that may be burning. Water may cause splattering on hot oil. Product will float on water.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

COMBUSTION HAZARDS: Combustion may produce oxides of carbon, sulphur and other oxidation products as well as smoke and irritating vapours.

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SECTION 5 – FIRE FIGHTING MEASURES Continued

5.3 ADVICE FOR FIREFIGHTERS:

FIRE: Highly flammable. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. Vapour may form explosive mixtures with air. Eliminate all ignition sources, including cigarettes, open flames, spark producing switches/tools, heaters, pilot lights, mobile phones etc. when handling. Aerosol cans may explode above 50°C.

HAZCHEM CODE: 2Y

EXPLOSION: Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use water fog to cool intact containers and nearby storage areas.

PROTECTIVE EQUIPMENT: In the event of a fire, wear full protective clothing and self-contained breathing equipment with full-face piece operated in the pressure demand or other positive pressure mode.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

PERSONAL PROTECTION: For small spills, wear Nitrile gloves, glasses/goggles, boots and full-length clothing. During routine operation a respirator is not required. However, if mists or vapours are generated, an approved organic vapour/particulate respirator is required. For large spills, or in confined spaces, a full chemically resistant body-suit is recommended and the atmosphere must be evaluated for oxygen deficiency. If in doubt about oxygen deficiency wear self-contained breathing apparatus.

CONTROL MEASURES: Ventilate area and extinguish and/or remove all sources of ignition. Stop the leak if safe to do so. Caution: The spilled product will be slippery. Avoid contact with the spilled material.

EMERGENCY PROCEDURES: In the event of a spill or accidental release, notify the relevant authorities in accordance with all applicable regulations.

6.2 ENVIRONMENTAL PRECAUTIONS:

SPILL ADVICE: Do not allow product to enter drains, surface water, sewers or watercourses - inform local authorities if this occurs.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

CONTAINMENT: Contain the spill and absorb with a proprietary absorbent material, sand or earth. For large spills prepare a bund/barrier/dyke ahead of the spill to confine the spill and allow later recovery. If there is the possibility of spills to enter drains, surface water, sewers or watercourses ensure bunding, or that drains are covered, to minimise the potential for this to occur.

CLEANING PROCEDURES: Having contained the spill, as mentioned above, collect all material quickly and place used absorbent in suitable containers. Follow local regulations for the disposal of waste. For large spills that have been bunded, the material can be pumped into vessels and returned for reprocessing or destruction. Personnel must wear gloves, goggles or glasses, boots and full-length clothing during cleaning procedures. Wash contaminated area and objects with detergent and water after spill has been cleared. Rinse the cleaned area with water. Do not allow wash water or rinsings to enter drains, surface water, sewers or water courses.

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SECTION 7 – HANDLING AND STORAGE, INCLUDING HOW THE CHEMICAL MAY BE SAFELY USED

7.1 PRECAUTIONS FOR SAFE HANDLING:

SAFE HANDLING: Avoid contact with the product by using appropriate protective equipment such as gloves, glasses or goggles and full-length clothing. Prevent small spills and leakage to avoid slip hazards. Properly dispose of any contaminated rags or cleaning materials in order to prevent fire hazards. Eating, drinking, and smoking should be prohibited in the area where this material is handled, stored and processed. Workers should follow good personal hygiene practices, such as washing hands before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Keep containers tightly closed when not in use. Prevent product from entering waterways, drains or sewers.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATABILITIES:

SAFE STORAGE: This product is a hydrocarbon-based liquid that will burn if preheated. Store below 40C in a well ventilated area away from direct sunlight, ignition sources, oxidising agents, foodstuffs and clothing. Keep containers closed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

INCOMPATIBILITIES: Oxidizing substances including strong acids.

SECTION 8 – EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1 EXPOSURE CONTROL MEASURES:

EXPOSURE LIMIT VALUES: Exposure standards for the product have not been established. However, if the material is subjected to elevated temperatures, and oil mists or vapours are generated the following Exposure Standard should be observed:

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Type	Value
Methylene Chloride (CAS 75-09-2)	STEL	125 ppm
	TWA	25 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Propane (CAS 74-98-6)	PEL	1800 mg/m3 1000 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Methylene Chloride (CAS 75-09-2)	TWA	50 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Propane (CAS 74-98-6)	TWA	1800 mg/m3 1000 ppm

8.2 BIOLOGICAL

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Methylene Chloride (CAS 75-09-2)	0.3 mg/l	Dichloromethane	Urine	*

* - For sampling details, please see the source document.

8.3 CONTROL BANDING: No data available.

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8.4 ENGINEERING CONTROLS:

ENGINEERING CONTROLS: Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof extraction ventilation is recommended. Flammable vapours may accumulate in poorly ventilated or confined areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the recommended exposure standard.

8.5 INDIVIDUAL PROTECTION MEASURES:

EYE & FACE PROTECTION: Wear safety glasses/goggles to avoid eye contact when handling. If there is a risk of splashing during use, a full face shield is recommended. Use eye protection in accordance with AS 1336 and AS 1337 or local requirements.

SKIN (HAND) PROTECTION: If there is the chance of contact with the material wear gloves to provide hand protection. Nitrile rubber gloves are recommended.

SKIN (CLOTHING) PROTECTION: During normal operating procedures, long sleeved clothing is recommended to avoid skin contact. Soiled clothing should be washed with detergent prior to re-use.

RESPIRATORY PROTECTION: During routine operation a respirator is not required. However, if mists or vapours are generated, an approved half face organic vapour/particulate respirator is required. Use respirators in accordance with AS 1715 and AS 1716 or local requirements.

THERMAL PROTECTION: Not applicable.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: liquid (aerosol dispensed)
ODOUR: Chlorinated hydrocarbon
ODOUR THRESHOLD: No data available.
pH: No data available.
MELTING/FREEZING POINT: No data available.
INITIAL BOILING POINT: No data available.
BOILING RANGE (^{o}C): No data available.
FLASHPOINT (^{o}C): -105C estimated
EVAPORATION RATE: <1 (butyl acetate = 1)
FLAMMABILITY LIMITS (%): 2.1 – 9.5 (Propane limits).
VAPOUR PRESSURE (mmHg): 350 kPa @ 25C
VAPOUR DENSITY: 0.9 (Air = 1).
DENSITY (g/mL @ 15^{o}C): Typically 1.0 (liquid phase)
SOLUBILITY IN WATER (g/L): Insoluble in water.
PARTITION COEFFICIENT: No data available
AUTO-IGNITION TEMP (^{o}C): No data available.
DECOMPOSITION TEMP (^{o}C): No data available.
VISCOSITY (cP @ 25 ^{o}C): Typically 80 (liquid phase)
ASTM RUST TEST: Pass.

SECTION 10 – STABILITY AND REACTIVITY

10.1 REACTIVITY: The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2 CHEMICAL STABILITY: Risk of ignition. Stable at normal conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS: Keep away from strong oxidising agents, such as strong acids, chlorates, nitrates and peroxides. Hazardous polymerisation does not occur.

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10.4 CONDITIONS TO AVOID: Observe the usual precautionary measures for handling chemicals. Do not heat the container or leave the container open when not in use. Avoid sources of ignition.

10.5 INCOMPATIBLE MATERIALS: Strong oxidising agents including concentrated acids.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition products are not expected to form during normal storage requirements. See Section 5.2 for Hazardous Combustion products.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:
The product is a mixture and test data is not available for the product as a whole.

Inhalation Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure
Skin contact Causes skin irritation.
Eye contact Causes serious eye irritation.
Ingestion Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics
Dizziness. Nausea. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects
Acute toxicity Harmful if inhaled. Harmful if swallowed.

Components	**Species**	**Test Results**
Methylene Chloride (CAS 75-09-2)		
Acute		
Inhalation		
LC50	Mouse	14400 ppm, 7 Hours 54 mg/m3, 2 Hours 49.1 mg/l, 6 Hours
	Rat	2000 mg/l, 15 Minute 88 mg/l, 900 Days 76 mg/l, 4 Hours
LD50	Mouse	1600 ppm, 7 Hours
Oral		
LD50	Rat	1600 mg/kg

Skin corrosion/irritation Not expected to be hazardous by OSHA criteria.
Serious eye damage/eye/irritation Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization
Respiratory sensitization Not available.
Skin sensitization Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).
Germ cell mutagenicity Not expected to be hazardous by OSHA criteria. Not expected to be hazardous by WHMIS criteria. May cause genetic defects.

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Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity
Methylene Chloride (CAS 75-09-2) 2B. Possible carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Methylene Chloride (CAS 75-09-2) Cancer

US. National Toxicology Program (NTP) Report on Carcinogens
Methylene Chloride (CAS 75-09-2). Reasonably anticipated to be a Human Carcinogen.

Reproductive toxicity May damage fertility. Not expected to be hazardous by OSHA criteria. Not expected to be hazardous by WHMIS criteria.

Specific target organ toxicity - single exposure Causes damage to organs.

Specific target organ toxicity - repeated exposure Respiratory system. Skin. Kidneys. Central nervous system. Eyes. Liver. May cause damage to organs through prolonged or repeated exposure .

Aspiration hazard Not likely, due to the form of the product.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

Danger of serious damage to health by prolonged exposure. Not expected to be hazardous by WHMIS criteria. May cause damage to organs through prolonged or repeated exposure.

Further information Danger of very serious irreversible effects.

SECTION 12 – ECOLOGICAL INFORMATION

12.1 ECOTOXICITY:

Methylene Chloride (CAS 75-09-2)

Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1250 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	140.8 - 277.8 mg/l, 96 hours

12.2 PERSISTENCE & DEGRADABILITY: Based on the available data and the known hazards of the components and similar products the product is not expected to be readily biodegradable. Major constituents are expected to be inherently biodegradable, however the product contains components that may persist in the environment.

12.3 BIOACCUMULATIVE POTENTIAL:

Partition coefficient n-octanol /water (log Kow)	
Methylene Chloride	1.25

12.4 MOBILITY IN SOIL: If the product enters soil, based upon similar products it is expected that it will adsorb onto soil particles and will not be mobile.

12.5 OTHER ADVERSE EFFECTS: Based on the available data and the known hazards of the components and similar products the product is not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential. The product is a mixture of non-volatile components, which are not expected to be released to the air in any significant amounts. The product will float on water.

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SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 DISPOSAL METHODS:

PRODUCT: All unused, waste or spilled product must be taken for recycling or disposal by suitably licensed contractors in accordance with local Government or municipality regulations.

CONTAINERS: Do not puncture or incinerate aerosol cans. Contact the manufacturer for additional information.

SECTION 14 – TRANSPORT INFORMATION

This product is not regulated for land or sea. (HS Code: 2710.19.91)

14.1 LAND (ADG Code):

UN NUMBER:	1950
UN PROPER SHIPPING NAME:	Aerosols
TRANSPORT HAZARD CLASS(ES):	Not applicable
PACKAGING GROUP:	Not applicable
ENVIRONMENTAL HAZARDS:	Highly flammable
SPECIAL PRECAUTIONS FOR USER:	Store at <40C
HAZCHEM CODE:	2Y

14.2 SEA (IMDG):

UN NUMBER:	1950
UN PROPER SHIPPING NAME:	Aerosol
TRANSPORT HAZARD CLASS(ES):	Not applicable
PACKAGING GROUP:	Not applicable
ENVIRONMENTAL HAZARDS:	Highly flammable
SPECIAL PRECAUTIONS FOR USER:	Store at <40C

14.3 AIR (IATA):

UN NUMBER:	1950
UN PROPER SHIPPING NAME:	Not applicable
TRANSPORT HAZARD CLASS(ES):	Not applicable
PACKAGING GROUP:	Not applicable
ENVIRONMENTAL HAZARDS:	Not applicable
SPECIAL PRECAUTIONS FOR USER:	Not applicable

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SECTION 15 – REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS:

APPLICABLE REGULATIONS:
SUSMP: Not scheduled.
AICS (AUSTRALIA): All ingredients are on the AICS List.
PICCS (PHILIPPINES): All ingredients are on the PICCS List.
MONTREAL PROTOCOL: Not applicable to this product.
STOCKHOLM CONVENTION: Not applicable to this product.
ROTTERDAM CONVENTION: Not applicable to this product.
BASEL CONVENTION: Not applicable to this product.
INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM SHIPS (MARPOL): Not determined.

OTHER REGULATORY INFORMATION:
GHS Hazard Statements: Not applicable.

SECTION 16 – ANY OTHER RELEVANT INFORMATION

SDS INFORMATION: **Revision:** 2.0

REVISION CHANGES: Initial preparation of new SDS format.

All information contained in this Safety Data Sheet and the health, safety and environmental information are considered to be accurate to the best of our knowledge as of the issue date specified above. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the data and information contained in this data sheet.

Health and safety precautions and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The Company accepts no responsibility for any injury, loss or damage, resulting from abnormal use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.