



SAFETY DATA SHEET

according to regulation 1907/2006/EC (REACH) and 1272/2008/EC **MOL-LUB Ltd.**

Trade name: **MOL Dynamic Moto Chain O-X moto chain spray with teflon**

Version: 6 Latest revision: 03. 01. 2017 Date of issue: 16. 04. 2008 Page: 1/(15)

Section 1 Identification of the mixture/substance and of the company/undertaking

1.1 Product identifier:

MOL Dynamic Moto Chain O-X moto chain spray with teflon

1.2 Relevant identified uses of the mixture or substance and uses advised against

Relevant identified uses: moto chain spray with teflon

Uses advised against: no data

1.3 Details of the supplier of the safety data sheet:

MOL-LUB Lubricant Production Trade and Service Limited Liability Company

H-2931 Almásfüzitő, Fő út 21., Hungary

Phone / Fax: +36 34 526 330 / +36 34 526 391

E-mail: kenoanyag@mol.hu

Request SDS of:

MOL-LUB Lubricant Production Trade and Service Limited Liability Company

Customer Service Center

H-2931 Almásfüzitő, Fő út 21., Hungary

Phone / Fax: +36 80 201 296 / +36 34 348 010

Responsible for SDS:

MOL-LUB Ltd. Csaba Horváth, head of SD, HSE & Business Support

Phone: +36 34 526 343; Mobile: +36 20 474 2644

e-mail: csahorvath@mol.hu

1.4 Emergency telephone number

Emergency telephone (07-15²⁰ h): +36 34 526 210 (CET) on workdays

Health Toxicological Information Service (ETTSZ 1096 Budapest, Nagyvárad tér 2.)

Tel.: 36 80 201 199 (0-24 h, free number).

National Health Toxicological Information Service:



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Section 2 Hazards identification

2.1 Classification of the mixture or substance

Hazard Class and Category:	Hazard statement:
Aerosol 2	H223 Flammable aerosol.
Aerosol 2	H229 Pressurised container: May burst if heated.
STOT SE 3	H336 May cause drowsiness or dizziness.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Product identification:

Trade name: **MOL Dynamic Moto Chain O-X moto chain spray with teflon**

Hazardous components: n-Pentane (CAS Nr.: 109-66-0)

Pictogram:



Signal word:

Danger

Hazard statement:

H223	Flammable aerosol.
H229	Pressurised container: May burst if heated.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Supplemental hazard information: -

Precautionary statements – General:

P102 Keep out of reach of children.

Precautionary statements – Prevention:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing vapours, spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.



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Precautionary statements – Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER, doctor if you feel unwell.

Precautionary statements – Storage:

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.

Precautionary statements – Disposal:

P501 Dispose of contents/container in accordance with national regulation.

Other liabilities for labelling:

Tactile warning of danger: Not required.

Transport classification: see section 14.

2.3 Other hazards

The product does not contain any PBT or vPvB substance according to annex XIII of regulation (EC) 1907/2006.

Section 3 Composition/information on ingredients

3.2 Mixtures

Chemical description: Mixture of high refined mineral base oil, synthetic oil, solvent, additives with propane and butane propellant.

Component / Hazardous component(s):

Name	EU number	CAS number	Hazard classes and cat.	Hazard statements	Conc. % (m/m)
Propane	200-827-9	74-98-6	Flam. Gas 1 Press Gas	H220 H281	max. 45
Butane	203-448-7	106-97-8	Flam. Gas 1 Press Gas	H220 H281	
n-Pentane	203-692-4	109-66-0	Flam. Liq. 2 Asp. Tox. 1 STOT SE 3 Aquatic Chronic 2	H225 H304 H336 H411	max. 40
Synthetic oil (polybutene)	500-004-7	9003-29-6	-	-	max. 15



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Name	EU number	CAS number	Hazard classes and cat.	Hazard statements	Conc. % (m/m)
White mineral oil (petroleum) REACH Registr. Nr.: 05-2114111021-79	232-455-8	8042-47-5	-	-	max. 4
Polyisobutenyl succinimide		84605-20-9	Skin Irrit. 2 Eye Irrit. 2	H315 H319	max. 2
Lubricating oils (petroleum), C24-C50	309-877-7	101316-72-7	Asp. Tox. 1	H304	max. 1
Lubricating oils (petroleum), C>25	309-874-0	101316-69-2	-	-	max. 1

* with exposure limit

The full text of each relevant H phrase sees in Section 16.

Section 4 First aid measures

4.1 Description of first aid measures

General information: Never give anything by mouth to an unconscious person, or never induce vomiting.

Inhalation: Remove the affected person to fresh air. If rapid recovery does not occur, obtain medical attention. Place patient in recovery position and transport accordingly.

Skin contact: Wash with plenty amount of water, using soap. In case of persistent irritation, get medical advice.

Eye contact: Flush immediately with plenty of running water for at least 15 minutes, holding the eyelids open. Get medical attention.

Ingestion: Not applicable under normal conditions (aerosol).
In case of ingestion **do not** induce vomiting. Get prompt medical attention.

Protection of first-aid person: No individual specifications.



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4.2 Most important symptoms and effects, both acute and delayed
Vapours may cause drowsiness and dizziness.

4.3 Indication of any immediate medical attention and special treatment need
In case of ingestion.

Section 5 Fire-fighting measures

Fire hazards:

Explosive

Pressurized container.

Product can form flammable/explosive vapour-air mixtures.

5.1 Extinguishing media

Suitable extinguishing media:

Carbon dioxide, dry chemical powder, water spray.

Unsuitable extinguishing media:

Water jet.

5.2 Special hazards arising from the mixture or substance

Hazardous decomposition products:

On burning, carbon monoxide, carbon dioxide, various hydrocarbons can be formed.

5.3 Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations. Wear a self-contained breathing apparatus and full turnout gear.

Further information:

Product can form flammable/explosive vapour-air mixtures.

The closed containers may rupture with explosive force.

Water spray for cooling.



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Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:

See Section 8.

Sufficient ventilation should be provided.

Keep persons not involved in rescue at a distance.

6.2 Environmental precautions:

Prevent spills from entering into natural water, soil and drains by containing the liquid.

Notify relevant authority.

6.3 Methods and material for containment and cleaning up

Remove all sources of ignition. Ensure adequate ventilation. Collect the damaged containers to safe place. Observe the usual precautionary measures for handling and dispose of explosive materials.

Contain spilled liquid with suitable absorbents and place in suitable containers for disposal (dangerous waste).

6.4 Reference to other sections

Personal precautions: see section 8.

Waste treatment methods: see section 13.

Section 7 Handling and storage

7.1 Precautions for safe handling

Keep general measures applied for normal operations with flammable- and explosive materials.

Ensure adequate ventilation.

Do not spray on an open flame or other ignition source.

Keep away from other ignition sources. No smoking.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C.

Do not pierce or burn, even after use.

Avoid breathing aerosol. Avoid contact with eyes and skin.

Handling temperature:



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7.2 Conditions for safe storage, including any incompatibilities

Store in dry, well ventilated place in original, closed containers.

Keep general measures applied for normal operations with flammable-, explosive and pressurized container materials.

Keep away from direct heat, ignition sources and strong oxidizing agents.

Recommended storage temperature: max. 40°C

7.3 Specific end use(s)

Moto chain spray with teflon.

Section 8 Exposure controls / personal protection

Engineering control measures:

Adequate ventilation.

8.1 Control parameters:

Butane: Not established

n-Pentane

TWA (8 h) : 3000 mg/m³

8.2 Exposure controls

Personal protection:

Respiratory protection: Breathing apparatus not required in case of adequate ventilation.

Where concentrations in air may exceed the limits given in this section, it is recommended to use a half face filter mask to protect from overexposure by inhalation.

Hand protection: Chemically/oil resistant gloves (EN 374), in case of permanent exposure.

Eye protection: Protective goggles not required.

Skin protection: Protective clothing.

Other special:

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.



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Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:

Physical state: liquid (mixture without PB gas)
Colour: colourless
Odour: mild

Change in physical state:

Boiling point (DIN 51356): not available

Others:

Flash point: < -40°C
Ignition point (EN ISO 2592): not available
Autoignition temperature: not available
Explosive properties: Product can form flammable/explosive vapour-air mixtures.

Oxidizing properties: not available
Vapour pressure at 20°C: not available
Density at 15°C (EN ISO 12185): typ. 0,721 g/cm³ (mixture without PB gas)

Solubility in water: practically insoluble in water
Solubility in other solvents: gasoline, kerosene, toluene, etc.
n-Octanol/water partition coefficient: not available
Vapour density: not available
Evaporation rate: not available
Kinematic viscosity at 40°C (EN ISO 3104): not available
pH: not applicable

9.2 Other information

no data available

Section 10 Stability and reactivity

10.1 Reactivity: Dangerous reactivity not known.

10.2 Chemical stability: No decomposition if stored and handled properly.



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- 10.3 Possibility of hazardous reactions: Not known.
- 10.4 Conditions to avoid: Direct heat or ignition sources, direct sunlight.
The closed containers may rupture with explosive force.
- 10.5 Incompatible materials: Strong oxidizing agents.
- 10.6 Hazardous decomposition products: No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5.

Section 11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity: No data for the product.

Note: Vapours may cause drowsiness and dizziness.

Oral:	LD ₅₀ (rat)	> 2000	mg/kg	(based on components)
Dermal:	LD ₅₀ (rabbit)	> 2000	mg/kg	(based on components)

Inhalation:

Note: Vapours may cause drowsiness, dizziness and narcosis.

Components:

n-Pentane

Oral:	LD ₅₀ (rat)	> 5000	mg/kg	
Dermal:	LD ₅₀ (rabbit)	3000	mg/kg	
Inhalation:	LC ₅₀ (mouse)	295	mg/1/2 h	

Acute toxicity: irritation

Skin: not irritant (based on components)

Note: Repeated exposure may cause skin dryness or cracking.

Eye: not irritant (based on components)

Sensitization: not sensitising (based on components)



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Other information, specific effects:

Germ cell mutagenicity:	not known, resp. not mutagen (based on components)
Carcinogenicity:	not known, resp. not carcinogen (based on components)
Reproductive toxicity:	not known, resp. no reproduction-damaging effect (based on components)
STOT-single exposure:	not classified
STOT-repeated exposure:	not classified
Aspiration hazard:	not classified

Section 12 Ecological information

12.1 Toxicity	No data available.
Aquatic organisms:	
Soil organisms:	
Plants:	
12.2 Persistence and degradability	
Biodegradability:	No data available.
12.3 Bioaccumulative potential	No data available.
12.4 Mobility	
Mobility in soil:	Adsorb to soil particles and mobility is repealed.
Mobility in water:	Floats on water. The most part of the product is very volatile.
12.5 Results of PBT and vPvB assessment	Does not contain PBT and vPvB substances.
12.6 Other adverse effects	
Heavy metal content:	None.
PCT, PCB and other chlorinated hydrocarbons:	None.
Environmental effects:	Toxic to aquatic life with long lasting effects.
Water hazard class (German):	WGK 2 (Classification by VwVwS)



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Section 13 Disposal considerations

13.1 Waste treatment methods

Product disposal:

Wastes of the product or used oil should be treated as hazardous waste.

Waste Identification Code: 16 05 04*

Gases in pressure containers (including halons) containing dangerous substances

Packaging disposal:

Containers with product residue should also be treated as hazardous waste according to national and local disposal regulations.

Waste Identification Code: 15 01 10*

packaging containing residues of or contaminated by dangerous substances

Disposal must be in compliance with national and local regulations.

Wastewater:

Quality of wastewater emitted to natural water must comply with national and local regulations.

Care should be taken in any case to ensure compliance with EC, national and local regulations. It is the responsibility of the user to know all relevant national and local regulations.

Section 14 Transport information

Land transport:

14.1.	UN number:	1950
14.2.	UN proper shipping name:	AEROSOLS, FLAMMABLE, N.O.S.
14.3.	Transport hazard class(es):	2
	Class code:	5F
14.4.	Packing group:	2.1
14.5.	Environmental hazards:	no
14.6.	Special precautions for user:	CV9, CV12
	Limited and excepted quantities:	1 I, E0
	Transport category (Tunnel Restriction Code):	2 (D)



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Waterways:

Inland waterways/ Sea transport ADN/IMDG:

14.1.	UN number:	1950
14.2.	UN proper shipping name:	AEROSOLS, FLAMMABLE, N.O.S.
14.3.	Transport hazard class(es):	2
	Class code:	5F
14.4.	Packing group:	2.1
14.5.	Environmental hazards:	no
14.6.	Special precautions for user:	
	EmS number:	F-D S-U
	Limited quantity:	IMDG classification, section 3.4 Cartons up to 30 kg, Marking see Road transport

Air transport: ICAO / IATA:

14.1.	UN number:	1950
14.2.	UN proper shipping name:	AEROSOLS, FLAMMABLE, N.O.S.
14.3.	Transport hazard class(es):	2
	Class code:	5F
14.4.	Transport hazard class(es):	
	Class code:	
14.5.	Environmental hazards:	-
14.6.	Special precautions for user:	

Section 15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the mixture.
This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (mod. 2015/830/EC) and to Regulation (EC) 1272/2008.
- 15.2 Chemical safety assessment.
not available



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Section 16 Other information

The information given in this data sheet is based on our best knowledge at the time of publication. The information is related only to this product and is intended to assist its safe transport, handling and use. The given physical and chemical parameters describe the product only for the purpose of safety requirements and therefore should not be construed as guaranteeing any specific property of the product or as being part of a product specification or any contract.

The manufacturer or supplier shall not take responsibility for any damages from the use other than recommended or other misuse of the product. It is the responsibility of the user to keep regulatory precautions and observe recommendations for safe use of the product.

Source of data presented in this material safety data sheet:

Test results of this product

Material safety data sheets of product's components

Hungarian and EU lists of dangerous substances

Relevant Hungarian regulation and EU directives

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 (CLP)

Aerosol 2 H223 (calculated)

Aerosol 2 H229 (calculated)

STOT SE 3 H336 (calculated)

Aquatic Chronic 2 H411 (calculated)

The full text of each relevant Hazard classes and cat. and H- phrase in Section 3.:

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H281 Contains refrigerated gas; may cause cryogenic burns or injury.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.



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Flam. Gas 1	Flammable gas Category 1
Flam. Liq. 2	Flammable liquid Category 2
Press Gas	Refrigerated liquefied gas
Asp. Tox. 1	Aspiration hazard Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
STOT SE 3	Specific target organ toxicity — single exposure Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment, Chronic Category 2

Legend:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration Factor
BOD	Biological Oxygen Demand
Bw	Body Weight
C&L	Classification and Labeling
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging (1272/2008/EC)
CMR	Carcinogenic, Mutagenic or toxic to Reproduction
COD	Chemical Oxygen Demand
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
ECHA	European Chemicals Agency
Ec _x	Effective Concentration x%
ErC ₅₀	EC ₅₀ in terms of reduction of growth rate
Ed _x	Effective Dose x%
EC	European Community
EC number	European Community number
ELINCS	European List of Notified Chemical Substances
ES	Exposure Scenario
ESIS	European Chemical Substances Information System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods



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LCx	Lethal Concentration x%
LDx	Lethal Dose x%) Halálós dózis x%
LOAEC	Lowest Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
LOEC	Lowest Observed Effect Concentration
LOEL	Lowest Observed Effect Level
NOEC	No observed effect concentration
NOEL	No observed effect level
NLP	No-Longer Polymer
NOAEL	No Observed Adverse Effect Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	parts/million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International carriage of Dangerous Goods by Rail
SVHC	Substance of Very High Concern
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bio-accumulative

Revision Indicators:

Section	Subject of change	Date	Version
1 3 9	Name Composition / information on ingredients Physical and chemical properties	30.07.2008	2
1-16	Changing of regulation	25.05.2010	3
3 1-16	Composition/information on ingredients Regulatory information, other corrections Revision modification according to 453/2010/EC and 1272/2008/EC	13.03.2012	4
1 2 3 4 12 14 1-16	Details of the supplier of the safety data sheet, Responsible for SDS Other hazards Composition/information on ingredients First aid measures Ecological information Transport information Other corrections, revision modification according to 1272/2008/EC and 2015/830 /EC	05. 01. 2016	5
14	Transport information	03. 01. 2017	6