

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: 5 Latest revision: 05. 01. 2016 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 <u>mixture</u> 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 <u>mixture</u> 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:





Danger



Signal word:

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 no 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	CAS	Hazard classes and	Hazard	Conc.
Name	number	number	cat.	statements	%(m/m)
Propane	200-827-9	74-98-6	Flam. Gas 1	Н220 \	
			Press Gas	H281	
Butane	203-448-7	106-97-8	Flam. Gas 1	H220	max. 45
			Press Gas	H281 J	
n-Pentane	203-692-4	109-66-0	Flam. Liq. 2	H225	max. 40
			Asp. Tox. 1	H304	
			STOT SE 3	H336	
			Aquatic Chronic 2	H411	
Synthetic oil (polybutene)	500-004-7	9003-29-6	-	-	max. 15



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

^{*} 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:

Vapour density:

Evaporation rate:

Kinematic viscosity at 40°C (EN ISO 3104):

pH:

not available
not available
not available
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

Not known.

reactions:

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 No dangerous decomposition products are formed under normal

products: 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

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 Does not contain PBT and vPvB substances.

assessment

12.6 Other adverse effects

Heavy metal content: None. PCT, PCB and other chlorinated None.

hydrocarbons:

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
142	LIM man an alaimmin a manas.	A EDOCOL C

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:

Limited quantity: 1 1,E0 Tunnel Restriction Code: 2 (D)

Special precautions for user: CV9, CV12



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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: 2.114.5. 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 Biocontrentration 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 Carcigonic, Mutagenic or toxic to Reproduction

COD Chamical Oxygen Demand
CSA Chemical Safety Assessment
CSR Chemical Safety Report
DMEL Derived Minimal Effect Level
DNEL Derived No Effect Level
ECHA European Cheamicals Agency
Ecx Effective Concentration x%

ErC50 EC50 in terms of reduction of growth rate

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