

Printing date 02.06.2015 Version number 102 Revision: 02.06.2015

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier
- · Trade name: MOTIP QUICK START
- · Article number: 090405
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Auxiliary
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

MOTIP DUPLI B.V.

Wolfraamweg 2

NL- 8471 XC Wolvega

The Netherlands

Tel: +31 (0)561 694400 Fax: +31 (0)561 694411 e-mail info@nl.motipdupli.com

- · Further information obtainable from: QHSE Department
- 1.4 Emergency telephone number: +31 (0)561-694400 (09:00h 17:00h)

### SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R22: Harmful if swallowed.



F+; Extremely flammable

R12: Extremely flammable.

R19-52/53-66-67: May form explosive peroxides. Harmful to aquatic organisms, may cause long-term

adverse effects in the aquatic environment. Repeated exposure may cause skin dryness

or cracking. Vapours may cause drowsiness and dizziness.

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent. Warning! Pressurised container.

Has a narcotising effect.

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· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms





GHS02

O CHS

- · Signal word Danger
- · Hazard-determining components of labelling:

diethyl ether

pentane

· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P102 Keep out of reach of children.

P260 Do not breathe spray.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

*P211* Do not spray on an open flame or other ignition source.

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

P501 Dispose of contents/container in accordance with local regulations.

· Additional information:

EUH019 May form explosive peroxides.

EUH066 Repeated exposure may cause skin dryness or cracking.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous	components:	
CAS: 60-29	<i>-7</i>	

EINECS: 200-467-2 Index number: 603-022-00-4 Reg.nr.: 01-2119535785-29-xxxx diethyl ether

**X** Xn R22 **№** F+ R12

F+ R12 R19-66-67

Flam. Liq. 1, H224

🐧 Acute Tox. 4, H302; STOT SE 3, H336

25-50%

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CAS: 74-98-6 EINECS: 200-827-9	propane F+ R12	12.5-20%
	Flam. Gas 1, H220	
EINECS: 203-692-4 Index number: 601-006-00-1 Reg.nr.: 01-2119459286-30-xxxx	pentane  Xn R65  F+ R12  N R51/53  R66-67  Flam. Liq. 2, H225  Asp. Tox. 1, H304  Aquatic Chronic 2, H411  ↑ STOT SE 3, H336	10-12.5%
EINECS: 203-448-7	butane F+ R12 Flam. Gas 1, H220 Press. Gas C, H280	10-12.5%
EINECS: 200-857-2	isobutane  F+ R12  Flam. Gas 1, H220  Press. Gas C, H280	10-12.5%

### SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:

Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

#### SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep away from ignition sources.

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#### · 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7: Handling and storage

· 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Protect from heat and direct sunlight.
- $\cdot$  7.3 Specific end use(s) No further relevant information available.

#### SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters

· Ingre	dients with limit values that require monitoring at the workplace:
60-29	-7 diethyl ether
	Short-term value: 620 mg/m³, 200 ppm Long-term value: 310 mg/m³, 100 ppm
109-6	6-0 pentane
WEL	Long-term value: 1800 mg/m³, 600 ppm
106-9	7-8 butane
WEL	Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

- · Respiratory protection: Not required.
- · Protection of hands: Not required.

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- Material of gloves Not required. Penetration time of glove material Not required.

· Eye protection: Not required.

9.1 Information on basic physical an	d chemical properties	
General Information	• •	
Appearance:		
Form:	Aerosol	
Colour:	According to product specification	
Odour: Odour threshold:	Ether-like Not determined.	
pH-value:	Not determined.	
Change in condition	Undetermined	
Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Not applicable, as aerosol.	
	**	
Flash point:	< 0 °C (< 32 °F)	
	Not applicable, as aerosol.	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	170 °C (338 °F)	
Decomposition temperature:	Not determined.	
Self-igniting:	Product is not selfigniting.	
Danger of explosion:	May form explosive peroxides.	
Explosion limits:		
Lower:	1.4 Vol %	
Upper:	36.0 Vol %	
Vapour pressure at 20 °C (68 °F):	3500 hPa (2625 mm Hg)	
Density at 20 °C (68 °F):	0.633 g/cm³ (5.282 lbs/gal)	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/water	r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	99.6 %	
EU-VOC: EU-VOC in %:	630.4 g/l	
	99.58 %	

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### SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

### SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity

· LD/LC50	values relev	ant for classification:
60-29-7 di	ethyl ether	
Oral	LD50	855-2352 mg/kg (rat)
Dermal	LD50	>20000 mg/kg (rab)
Inhalative	LC50 / 4 h	73000 mg/m3 (rat)
109-66-0 р	entane	
Oral	LD50	>16000 mg/kg (rat)
Dermal	<i>LD50</i>	>2500 mg/kg (rat)
		>5000 mg/kg (rabbit)
Inhalative	LC50 / 4 h	>100 mg/m3 (rat)
106-97-8 b	utane	
Inhalative	LC50 / 4 h	658000 mg/m3 (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation No irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Harmful

### SECTION 12: Ecological information

#### · 12.1 Toxicity

· Aquatic toxi	city:
60-29-7 dieti	hyl ether
EC50	5600 mg/l (Photobacterium phosphoreum) EC50 / 15 min
EC50 / 24 h	165 mg/l (daphnia magna)
LC50 / 48 h	2840 mg/l (Leuciscus idus)
109-66-0 per	ntane
EC50 / 48 h	9.7 mg/l (daphnia magna)
	1-10 mg/l (fish)

- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.

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- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

# SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

-	waste catalogue
20 01 13*	solvents
15 01 04	metallic packaging

- · Uncleaned packaging:
- · Recommendation: Non contaminated packagings may be recycled.

· 14.1 UN-Number · ADR, IMDG, IATA	UN1950
· 14.2 UN proper shipping name	
ADR	1950 AEROSOLS
· IMDG	AEROSOLS
· IATA	AEROSOLS, flammable
· 14.3 Transport hazard class(es)	
· ADR	
Class Label	2 5F Gases. 2.1
· IMDG, IATA	
· Class	2.1

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· 14.5 Environmental hazards:		
· Marine pollutant:	No	
· 14.6 Special precautions for user	Warning: Gases.	
· Danger code (Kemler):	-	
· EMS Number:	F- $D$ , $S$ - $U$	
· 14.7 Transport in bulk according to Anne	ex II of	
MARPOL73/78 and the IBC Code	Not applicable.	
· Transport/Additional information:		
· <i>ADR</i>		
· Limited quantities (LQ)	IL	
· Excepted quantities (EQ)	Code: E0	
	Not permitted as Excepted Quantity	
· Transport category	2	
· Tunnel restriction code	D	
· IMDG		
· Limited quantities (LQ)	1L	
· Excepted quantities (EQ)	Code: E0	
• • • • • •	Not permitted as Excepted Quantity	
· UN ''Model Regulation'':	UN1950, AEROSOLS, 2.1	

### SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Relevant phrases
- H220 Extremely flammable gas.
- H224 Extremely flammable liquid and vapour.
- H225 Highly flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- R12 Extremely flammable.
- R19 May form explosive peroxides.
- R22 Harmful if swallowed.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.
- · Department issuing MSDS: R&D legislation and regulatory advisor
- · Contact: Mr. K. Smedeman

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#### · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Gas 1: Flammable gases, Hazard Category 1

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

Press. Gas C: Gases under pressure: Compressed gas Flam. Liq. 1: Flammable liquids, Hazard Category 1

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Acute Tox. 4: Acute toxicity, Hazard Category 4

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

\* Data compared to the previous version altered.