

**MULTIFUNCTION A300**

# Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

**1.1. Product identifier**

Code: **U051050004**  
Product name **MULTIFUNCTION A300**

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

Intended use **Protective all in one.**  
Uses advised against: **Different uses than those intended.**

**1.3. Details of the supplier of the safety data sheet**

Name **CENTRO DISTRIBUZIONE UTENSILI SCPA**  
Full address **Via delle Gerole, 19**  
District and Country **20867 CAPONAGO (MB)**  
**ITALY**  
**tel. +39 02 95746081**  
**fax. + 39 02 95745182**

e-mail address of the competent person  
responsible for the Safety Data Sheet  
Product distribution by:

**info@cdu.net**  
**CENTRO DISTRIBUZIONE UTENSILI SCPA**

**1.4. Emergency telephone number**

For urgent inquiries refer to

**CENTRO DISTRIBUZIONE UTENSILI SCPA**  
**+39 02 95746081 (Technical support - Office hour 8.30-12.30 - 13.30-17.30)**

## SECTION 2. Hazards identification

**2.1. Classification of the substance or mixture**

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Aerosol, category 1	H222	Extremely flammable aerosol.
	H229	Pressurised container: may burst if heated.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Eye irritation, category 2	H319	Causes serious eye irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

**2.2. Label elements**

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

Signal words: **DANGER**

Hazard statements:

**H222** Extremely flammable aerosol.



<b>H229</b>	Pressurised container: may burst if heated.
<b>H319</b>	Causes serious eye irritation.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>EUH066</b>	Repeated exposure may cause skin dryness or cracking.
<b>EUH208</b>	Contains: (R)-P-MENTHA-1,8-DIENE. May produce an allergic reaction.

## Precautionary statements:

<b>P210</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
<b>P251</b>	Do not pierce or burn, even after use.
<b>P410+P412</b>	Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
<b>P501</b>	Dispose of contents / container to in accordance with local and national regulations.
<b>P102</b>	Keep out of reach of children.
<b>P211</b>	Do not spray on an open flame or other ignition source.
<b>P271</b>	Use only outdoors or in a well-ventilated area.

<b>Contains:</b>	HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS; WHITE MINERAL OIL (PETROLEUM); ETHYL ACETATE.
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Statements on the aspiration toxicity classification were not included in the label elements, based on section 1.3.3. of Annex I to CLP.

**2.3. Other hazards**

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

**SECTION 3. Composition/information on ingredients****3.2. Mixtures**

Contains:

Identification	X = Conc. %	Classification 1272/2008 (CLP)
<b>HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, &lt; 2% AROMATICS</b>		
CAS -	36,28 $\leq$ x $\leq$ 46,28	Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066
EC 919-857-5		
INDEX -		
Reg. no. 01-2119463258-33		
<b>PROPANE</b>		
CAS 74-98-6	20,45 $\leq$ x $\leq$ 24,45	Flam. Gas 1A H220, Press. Gas (Liq.) H280
EC 200-827-9		
INDEX 601-003-00-5		
Reg. no. 01-2119486944-21		
<b>BUTANE</b>		
CAS 106-97-8	7 $\leq$ x $\leq$ 11	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: C
EC 203-448-7		
INDEX 601-004-00-0		
Reg. no. 01-2119474691-32		
<b>ISOBUTANE</b>		
CAS 75-28-5	2,30 $\leq$ x $\leq$ 5,30	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: C
EC 200-857-2		
INDEX 601-004-00-0		
Reg. no. 01-2119485395-27		

**WHITE MINERAL OIL (PETROLEUM)**

CAS 8042-47-5 1,62 ≤ x ≤ 2,62 Asp. Tox. 1 H304

EC 232-455-8

INDEX -

Reg. no. 01-2119487078-27

**ETHYL ACETATE**

CAS 141-78-6 0,82 ≤ x ≤ 1,82 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 205-500-4

INDEX 607-022-00-5

Reg. no. 01-2119475103-46

**(2-ISOBUTYL-2-METHYL-1,3-DIOXOLAN-4-YL)METHANOL**

CAS 5660-53-7 0,72 ≤ x ≤ 1,72 Eye Dam. 1 H318

EC 692-614-6

INDEX -

Reg. no. 01-2120039709-47

**(R)-P-MENTHA-1,8-DIENE**

CAS 5989-27-5 0,25 ≤ x &lt; 0,51 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1, Classification note according to Annex VI to the CLP Regulation: C

EC 227-813-5

INDEX 601-029-00-7

Reg. no. 01-2119529223-47

The full wording of hazard (H) phrases is given in section 16 of the sheet.

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

Percentage of propellants max: 40,74 %

**SECTION 4. First aid measures****4.1. Description of first aid measures**

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

**4.2. Most important symptoms and effects, both acute and delayed**

Specific information on symptoms and effects caused by the product are unknown.

**HYDROCARBONS, C9 - C11, N-ALKANS, ISOALKANS, CYCLICS, <2% AROMATICS**

EYES: vapors or aerosols can cause irritation and burning.

SKIN: the effect of the product on the skin is a loss of skin fat. Repeated exposure can cause skin dryness and cracking. Prolonged or repeated contact can cause irritation, redness and dermatitis.

INHALATION: may cause drowsiness or dizziness. Gases or vapors in high concentrations can irritate the respiratory tract. Vapors in high concentrations are anesthetic. Symptoms following overexposure may include headache, dizziness, somnolence, nausea, vomiting, central nervous system depression.

INGESTION: danger of aspiration in case of ingestion. It can be fatal if swallowed and if it enters the respiratory tract. Entry into the lungs following ingestion or vomiting can cause chemical pneumonia. The onset of symptoms can occur with a delay of 24-48 hours. Keep the person concerned under observation.

**4.3. Indication of any immediate medical attention and special treatment needed**

Information for the doctor: symptomatically treatment.

**SECTION 5. Firefighting measures****5.1. Extinguishing media**



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## SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

## UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

**5.2. Special hazards arising from the substance or mixture**

## HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

**5.3. Advice for firefighters**

## GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.

## SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

**SECTION 6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

**6.2. Environmental precautions**

Do not disperse in the environment.

**6.3. Methods and material for containment and cleaning up**

Use inert absorbent material to soak up leaked product. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**6.4. Reference to other sections**

Any information on personal protection and disposal is given in sections 8 and 13.

**SECTION 7. Handling and storage****7.1. Precautions for safe handling**

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

Storage class TRGS 510 (Germany): 2B

**7.3. Specific end use(s)**

Protective all in one.

**SECTION 8. Exposure controls/personal protection****8.1. Control parameters**

## Regulatory References:

AUS Österreich  
BEL Belgique  
BGR България

CHE Suisse / Schweiz

Gesamte Rechtsvorschrift für Grenzwertverordnung 2018, Fassung vom 17.10.2018  
AR du 11/3/2002. La liste est mise à jour pour 2017

МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА  
ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г)  
Valeurs limites d'exposition aux postes de travail en Suisse: valeurs VME/VLE. Version Juin  
2019 (SUVA)



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CYP	Κύπρος	K.Δ.Π. 268/2001; K.Δ.Π. 55/2004; K.Δ.Π. 295/2007; K.Δ.Π. 70/2012; K.Δ.Π. 16/2019
CZE	Česká Republika	Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
EST	Eesti	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötervishoiu ja tööohutuse nõuded ning töökeskkonna keemiliste ohutegurite piirnormid [RT I, 17.10.2019, 1 - jõust. 17.01.2020]
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
FIN	Suomi	HTP-VÄRDEN 2018. Koncentrationer som befunnits skadliga. SOCIAL- OCH HÄLSOVÄRDSMINISTERIETS PUBLIKATIONER 10/2018
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
HUN	Magyarország	A pénzügyminiszter 7/2018. (VIII. 29.) PM rendelete a munkahelyek kémiai biztonságáról szóló 25/2000. (IX. 30.) EüM–SZCSM együ. Ttes rendelet módosításáról.
HRV	Hrvatska	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 91/18)
IRL	Éire	2018 Code of Practice for the Chemical Agents Regulations Safety Authority
LUX	Luxembourg	Règlement grand-ducal du 20 juillet 2018 modifiant le règlement grand-ducal du 14 novembre 2016 concernant la protection de la sécurité et de la santé des salariés contre les risques liés à des agents chimiques sur le lieu de travail
LTU	Lietuva	LIETUVOS HIGIENOS NORMA HN 23:2011 „CHEMINIŲ MEDŽIAGŲ PROFESINIO POVEIKIO RIBINIAI DYDŽIAI. MATAVIMO IR POVEIKIO VERTINIMO BENDRIEJI REIKALAVIMAI. Nr. V-695/A1-272, 2018-06-12, paskelbta TAR 2018-06-15, i. k. 2018-09988
LVA	Latvija	Ķīmisko vielu aroda ekspozīcijas robežvērtības (AER) darba vides gaisā 2018
MLT	Malta	LEGAL NOTICE 227 of 2003, as amended by Legal Notices 353 of 2007, 53 of 2012, 198 of 2015 and 57 of 2018
NOR	Norge	Fastsatt av Arbeids- og sosialdepartementet 21. august 2018 med hjemmel i lov 17. juni 2005 nr. 62 om arbeidsmiljø, arbeidstid, stillingsvern mv. (arbeidsmiljøloven) § 1-3, § 1-4 og § 4-5
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018, 2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de implementatie van Richtlijn 2017/164 in Bijlage XIII
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006 privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției lucrătorilor împotriva riscurilor legate de prezența agenților chimici
SWE	Sverige	Hygieniska gränsvärden, AFS 2018:1
SVK	Slovensko	Nariadenie vlády č. 33/2018 Z. z. Nariadenie vlády Slovenskej republiky, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 355/2006 Z. z. o ochrane zamestnancov pred rizikami súvisiacimi s expozíciou chemickým faktorom pri práci v znení neskorších predpisov
SVN	Slovenija	Uradni list Republike Slovenije 20.12.2019 - Uradnem listu RS št. 78/19 -PRAVILNIK o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
EU	OEL EU	Direttiva (UE) 2019/1831; Direttiva (UE) 2019/130; Direttiva (UE) 2019/983; Direttiva (UE) 2017/2398; Direttiva (UE) 2017/164; Direttiva 2009/161/UE; Direttiva 2006/15/CE; Direttiva 2004/37/CE; Direttiva 2000/39/CE; Direttiva 98/24/CE; Direttiva 91/322/CEE.
	TLV-ACGIH	ACGIH 2019

## HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, &lt; 2% AROMATICS

## Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	CHE	350	50	700	100	
MAK	CHE	5				INHAL
MAK	DEU	350	50	700	100	SKIN

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Revision nr. 6

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Dated 30/10/2020

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MAK	DEU	5	20	RESP				
TLV		1200		Vapour      Manuf.data				
<b>Health - Derived no-effect level - DNEL / DMEL</b>								
Effects on consumers				Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				125 mg/kg/d				
Inhalation				185 mg/m3				871 mg/m3
Skin				125 mg/kg/d				208 mg/kg/d

**PROPANE****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	AUS	1800	1000	3600	2000	STEL:60(Mow),Häufigkeit/Sch:3x
TRK	AUS	1800	1000	3600	2000	
VLEP	BEL		1000			
TLV	BGR	1800				
MAK	CHE	1800	1000	7200	4000	
VME/VLE	CHE	1800	1000	7200	4000	
AGW	DEU	1800	1000	7200	4000	
MAK	DEU	1800	1000	7200	4000	
TLV	DNK	1800	1000	3600	2000	
VLA	ESP		1000			
TLV	EST	1800	1000			
HTP	FIN	1500	800	2000	1100	
TLV	GRC	1800	1000			
RV	LVA	1800	100			
TLV	NOR	900	500			
NDS/NDSch	POL	1800				
TLV	ROU	1400	778	1800	1000	
MV	SVN	1800	1000	7200	4000	

**BUTANE****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	AUS	1900	800	3800	1600	STEL:60(Mow),Häufigkeit/Sch:3x
TRK	AUS	1600	800	3800	1600	
VLEP	BEL			2370	980	
TLV	BGR	1900				
MAK	CHE	1900	800			
VME/VLE	CHE	1900	800			
AGW	DEU	2400	1000	9600	4000	



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MAK	DEU	2400	1000	9600	4000
TLV	DNK	1200	500	2400	1000
VLA	ESP	1935	800		
TLV	EST	4			peentolm
VLEP	FRA	1900	800		
HTP	FIN	1900	800	2400	1000
TLV	GRC	2350	1000		
AK	HUN	2350		9400	
GVI/KGVI	HRV	1450	600	1810	750
RV	LVA	300			
TLV	NOR	600	250		
TGG	NLD	1430			
NDS/NDSch	POL	1900		3000	
MV	SVN	2400	1000	9600	4000
WEL	GBR	1450	600	1810	750
WEL	GBR		4		RESP
TLV-ACGIH					1000

**ISOBUTANE**

Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLEP	BEL			2370	980	
MAK	CHE	1900	800			
VME/VLE	CHE	1900	800			
AGW	DEU	2400	1000	9600	4000	
MAK	DEU	2400	1000	9600	4000	
HTP	FIN	1900	800	2400	1000	
OELV	IRL				1000	
TLV-ACGIH					1000	

**WHITE MINERAL OIL (PETROLEUM)**

Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	CHE	5				INHAL
AGW	DEU	5		20		RESP
MAK	DEU	5		20		RESP
TLV	ROU	5		10		
TLV-ACGIH		5		10		

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				40 mg/kg				



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Inhalation	bw/d 35 mg/m3	160 mg/m3
Skin	92 mg/kg bw/d	220 mg/kg bw/d

## ETHYL ACETATE

## Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	AUS	734	200	1468	400	
TRK	AUS	734	200	1460	400	
VLEP	BEL	734	200	1468	400	
TLV	BGR	734	200	1468	400	
MAK	CHE	730	200	1470	400	
VME/VLE	CHE	730	200	1470	400	
TLV	CYP	734	200	1468	400	
TLV	CZE	700	191,1	900	245,7	
AGW	DEU	730	200	1460	400	
MAK	DEU	750	200	1500	400	
TLV	DNK	540	150	1080	300	
VLA	ESP	734	200	1460	400	
TLV	EST	500	150	1100	300	
VLEP	FRA	734	200	1468	400	
HTP	FIN	730	200	1470	400	
TLV	GRC	734	200	1468	400	
AK	HUN	1400		1400		
GVI/KGVI	HRV	1400		1400		
OELV	IRL	734	200	1468	400	
VL	LUX	734	200	1468	400	
RD	LTU	500	150	1100 (C)	300 (C)	
RV	LVA	200	54	1468	400	
TLV	MLT	734	200	1468	400	
TLV	NOR	734	200			
TGG	NLD	734		1468		
VLE	PRT	734	200	1468	400	
NDS/NDSCh	POL	734		1468		
TLV	ROU	400	111	500	139	
NGV/KGV	SWE	550	150	1100	300	
NPPEL	SVK	734	200	1468	400	
MV	SVN	734	200	1468	400	
WEL	GBR	734	200	1468	400	
OEL	EU	734	200	1468	400	
TLV-ACGIH			400			

Predicted no-effect concentration - PNEC





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Normal value in fresh water	0,24	mg/l
Normal value in marine water	0,024	mg/l
Normal value for fresh water sediment	1,15	mg/kg/d
Normal value for marine water sediment	0,115	mg/kg/d
Normal value for water, intermittent release	1,65	mg/l
Normal value of STP microorganisms	650	mg/l
Normal value for the food chain (secondary poisoning)	200	mg/kg
Normal value for the terrestrial compartment	0,148	mg/kg/d

**Health - Derived no-effect level - DNEL / DMEL**

Effects on consumers

Effects on workers

Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				4,5 mg/kg bw/d				
Inhalation	734 mg/m3	734 mg/m3	367 mg/m3	367 mg/m3	1468 mg/m3	1468 mg/m3	734 mg/m3	734 mg/m3
Skin				37 mg/kg bw/d				63 mg/kg bw/d

**(R)-P-MENTHA-1,8-DIENE****Threshold Limit Value**

Type	Country	TWA/8h	STEL/15min	Remarks / Observations		
		mg/m3	ppm			
			mg/m3	ppm		
MAK	CHE	40	7	80	14	
VME/VLE	CHE	40	7	80	14	
AGW	DEU	28	5	110	20	SKIN
MAK	DEU	28	5	112	20	SKIN
VLA	ESP	168	30	80	14	SKIN
HTP	FIN	140	25	280	50	

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,0014	mg/l
Normal value in marine water	0,00014	mg/l
Normal value for fresh water sediment	3,85	mg/kg/d
Normal value for marine water sediment	0,385	mg/kg/d
Normal value of STP microorganisms	1,8	mg/l
Normal value for the food chain (secondary poisoning)	133	mg/kg
Normal value for the terrestrial compartment	0,763	mg/kg/d

**Health - Derived no-effect level - DNEL / DMEL**

Effects on consumers

Effects on workers

Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				4,8 mg/kg bw/d				
Inhalation				16,6 mg/m3				66,7 mg/m3
Skin				4,8 mg/kg bw/d				9,5 mg/kg bw/d

**Legend:**

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.  
 VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

**8.2. Exposure controls**



As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

Protect hands with work gloves.

#### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	aerosol
Colour	straw-coloured
Odour	typical
Odour threshold	Not available
pH	Not applicable
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	< 0 °C
Evaporation Rate	Not available
Flammability of solids and gases	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Solubility	in water: insoluble; in acetone: soluble
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available

### 9.2. Other information

VOC (Directive 2010/75/EC) : 91,92 % - 643,42 g/litre



Propellant flammability extremely flammable  
Limit of propellant flammability 1,8-9,5%

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### ETHYL ACETATE

It slowly decomposes to acetic acid and ethanol by the action of light, air and water.

#### (R)-P-MENTHA-1,8-DIENE

Possibility of reaction with oxidizing substances. Highly exothermic reaction when mixed with approximately 50/50 sulphonic acid alkylbenzene.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### ETHYL ACETATE

Avoid exposure to: light, moisture, air.

### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

Flammable liquid and vapor. Vapors can form explosive mixtures with air.

#### ETHYL ACETATE

May react violently with: strong oxidising agents, acids.

#### (R)-P-MENTHA-1,8-DIENE

May react with: oxidising substances.

### 10.4. Conditions to avoid

Avoid overheating.

#### HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

Avoid exposure to: excessive heat (prolonged period), flames, ignition sources.

#### WHITE MINERAL OIL (PETROLEUM)

Avoid exposure to: heat, naked flames, direct sunlight, ignition sources.

#### ETHYL ACETATE

Avoid exposure to: heat, naked flames, sparks, sources of ignition, electrostatic charges.

#### (2-ISOBUTYL-2-METHYL-1,3-DIOXOLAN-4-YL)METHANOL

Avoid exposure to: heat, naked flames, sparks.

#### (R)-P-MENTHA-1,8-DIENE

Avoid exposure to: naked flames, direct sunlight.

### 10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

#### HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

Incompatible with: oxidizing materials.

#### WHITE MINERAL OIL (PETROLEUM)

Avoid contact with: acids, strong bases, oxidising agents.

#### ETHYL ACETATE

Incompatible with: oxidising agents, strong acids, strong bases, peroxides.

#### (2-ISOBUTYL-2-METHYL-1,3-DIOXOLAN-4-YL)METHANOL

Incompatible with: strong acids, strong oxidising agents.

#### (R)-P-MENTHA-1,8-DIENE

Avoid contact with: oxidising agents, acids.

### 10.6. Hazardous decomposition products

#### HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

When heated to decomposition releases: carbon oxides, toxic gases or vapors, harsh fumes.



## MULTIFUNCTION A300

## WHITE MINERAL OIL (PETROLEUM)

When heated to decomposition releases: harmful and flammable gases or vapors.

## ETHYL ACETATE

In decomposition develops: carbon oxides, vapors of acetic acid, ethanol.

## (2-ISOBUTYL-2-METHYL-1,3-DIOXOLAN-4-YL)METHANOL

In decomposition develops: carbon oxides.

## (R)-P-MENTHA-1,8-DIENE

In decomposition develops: carbon oxides.

**SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

**11.1. Information on toxicological effects**Metabolism, toxicokinetics, mechanism of action and other information

Information not available.

Information on likely routes of exposure

Information not available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available.

Interactive effects

Information not available.

ACUTE TOXICITY

ATE (Inhalation) of the mixture:

Not classified (no significant component)

ATE (Oral) of the mixture:

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

## WHITE MINERAL OIL (PETROLEUM)

LD50 (Oral)

> 5000 mg/kg Rat (OECD 401)

LD50 (Dermal)

> 5000 mg/m<sup>3</sup> Rabbit (OECD 402)

LC50 (Inhalation)

> 5000 mg/m<sup>3</sup> Rat (OECD 403)

## ETHYL ACETATE

LD50 (Oral)

4934 mg/kg bw Rabbit (OECD 401)

LD50 (Dermal)

> 20000 mg/kg bw Male rabbit

LC50 (Inhalation)

> 22,5 mg/l/6h Rat

## HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, &lt; 2% AROMATICS

LD50 (Oral)

> 5000 mg/kg Rat (OECD 401)

LD50 (Dermal)

> 5000 mg/kg Rabbit (OECD 402)

LC50 (Inhalation)

> 5 mg/l/4h Rat (OECD 403)

## (R)-P-MENTHA-1,8-DIENE

LD50 (Oral)

> 2000 mg/kg dw Female rat (OECD 423)

LD50 (Dermal)

> 5000 mg/kg dw Rabbit

## (2-ISOBUTYL-2-METHYL-1,3-DIOXOLAN-4-YL)METHANOL

LD50 (Oral)

> 2000 mg/kg Rat

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

**SERIOUS EYE DAMAGE / IRRITATION**

Causes serious eye irritation.

**RESPIRATORY OR SKIN SENSITISATION**

May produce an allergic reaction. Contains: (R)-P-MENTHA-1,8-DIENE.

**GERM CELL MUTAGENICITY**

Does not meet the classification criteria for this hazard class.

**CARCINOGENICITY**

Does not meet the classification criteria for this hazard class.

**REPRODUCTIVE TOXICITY**

Does not meet the classification criteria for this hazard class.

**STOT - SINGLE EXPOSURE**

May cause drowsiness or dizziness.

**STOT - REPEATED EXPOSURE**

Does not meet the classification criteria for this hazard class.

**ASPIRATION HAZARD**

Toxic for aspiration.

## SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

### 12.1. Toxicity

**ETHYL ACETATE**

LC50 - for Fish	230 mg/l/96h Pimephales promelas
EC50 - for Crustacea	165 mg/l/48h Daphnia magna
Chronic NOEC for Crustacea	2,4 mg/l 21d - Daphnia magna

**HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS**

LC50 - for Fish	> 1000 mg/l/96h Onchorhynchus mykiss
EC50 - for Crustacea	1000 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 1000 mg/l/72h Pseudokirchneriella subcapitata
Chronic NOEC for Algae / Aquatic Plants	> 100 mg/l 72h - Pseudokirchneriella subcapitata

**(R)-P-MENTHA-1,8-DIENE**

LC50 - for Fish	0,72 mg/l Pimephales promelas (OECD 203)
EC50 - for Algae / Aquatic Plants	0,32 mg/l/72h Pseudokirchnella subcapitata

**(2-ISOBUTYL-2-METHYL-1,3-DIOXOLAN-4-YL)METHANOL**

LC50 - for Fish	> 100,3 mg/l/96h (OECD 203)
EC50 - for Crustacea	1203,7 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	598 mg/l/72h

### 12.2. Persistence and degradability



## WHITE MINERAL OIL (PETROLEUM)

Rapidly degradable

## BUTANE

Rapidly degradable

## PROPANE

Rapidly degradable

## ETHYL ACETATE

Solubility in water &gt; 10000 mg/l

Rapidly degradable 69% - 20d in water

## HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, &lt; 2% AROMATICS

Solubility in water Insoluble

Rapidly degradable 80% - 28d in water

## (R)-P-MENTHA-1,8-DIENE

Solubility in water Insoluble

Rapidly degradable 80% - 28d (OECD 301D)

## (2-ISOBUTYL-2-METHYL-1,3-DIOXOLAN-4-YL)METHANOL

Solubility in water 34,6 g/l

NOT rapidly degradable

**12.3. Bioaccumulative potential**

## WHITE MINERAL OIL (PETROLEUM)

Partition coefficient: n-octanol/water &gt; 3,5

## ETHYL ACETATE

Partition coefficient: n-octanol/water 0,68 Log Kow 25° C

BCF 30 - 3d - Leuciscus idus

## HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, &lt; 2% AROMATICS

Partition coefficient: n-octanol/water &gt; 4 Log Kow

## (2-ISOBUTYL-2-METHYL-1,3-DIOXOLAN-4-YL)METHANOL

Partition coefficient: n-octanol/water 1,57 Log Kow

**12.4. Mobility in soil**

Information not available.

**12.5. Results of PBT and vPvB assessment**On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.**12.6. Other adverse effects**

Information not available.

**SECTION 13. Disposal considerations****13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

**CONTAMINATED PACKAGING**

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**SECTION 14. Transport information****14.1. UN number**

ADR / RID, IMDG, IATA: 1950

**14.2. UN proper shipping name**

ADR / RID: AEROSOLS

IMDG: AEROSOLS

IATA: AEROSOLS, FLAMMABLE

**14.3. Transport hazard class(es)**

ADR / RID: Class: 2 Label: 2.1

IMDG: Class: 2 Label: 2.1

IATA: Class: 2 Label: 2.1

**14.4. Packing group**

ADR / RID, IMDG, IATA: -

**14.5. Environmental hazards**

ADR / RID: NO

IMDG: NO

IATA: NO

**14.6. Special precautions for user**

ADR / RID:	HIN - Kemler: -- Special Provision: -	Limited Quantities: 1 L	Tunnel restriction code: (D)
IMDG:	EMS: F-D, S-U	Limited Quantities: 1 L	
IATA:	Cargo: Pass.: Special Instructions:	Maximum quantity: 150 Kg Maximum quantity: 75 Kg A145, A167, A802	Packaging instructions: 203 Packaging instructions: 203

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Information not relevant.

**SECTION 15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category - Directive 2012/18/EC: P3a.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product  
Point 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 2: Hazard to waters.

**15.2. Chemical safety assessment**

A chemical safety assessment has not been performed for the mixture.

**SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>Flam. Gas 1A</b>	Flammable gas, category 1A
<b>Aerosol 1</b>	Aerosol, category 1
<b>Aerosol 3</b>	Aerosol, category 3
<b>Flam. Liq. 2</b>	Flammable liquid, category 2
<b>Flam. Liq. 3</b>	Flammable liquid, category 3
<b>Press. Gas (Liq.)</b>	Liquefied gas
<b>Asp. Tox. 1</b>	Aspiration hazard, category 1
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2





<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Aquatic Acute 1</b>	Hazardous to the aquatic environment, acute toxicity, category 1
<b>Aquatic Chronic 1</b>	Hazardous to the aquatic environment, chronic toxicity, category 1
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H220</b>	Extremely flammable gas.
<b>H222</b>	Extremely flammable aerosol.
<b>H229</b>	Pressurised container: may burst if heated.
<b>H225</b>	Highly flammable liquid and vapour.
<b>H226</b>	Flammable liquid and vapour.
<b>H280</b>	Contains gas under pressure; may burst if heated.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>EUH066</b>	Repeated exposure may cause skin dryness or cracking.

## LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).



## MULTIFUNCTION A300

Classification and procedure used to derive it in accordance with Regulation (EC) 1272/2008 (CLP) in relation to mixtures:

Classification according to Regulation (EC) No. 1272/2008	Classification procedure
Aerosol 1 H222+H229	Calculation method
Asp. Tox. 1 H304	Calculation method
Eye Irrit. 2 H319	Calculation method
STOT SE 3 H336	Calculation method
Aquatic Chronic 3 H412	Calculation method

## GENERAL BIBLIOGRAPHY

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2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
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4. Regulation (EU) 2015/830 of the European Parliament
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9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
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14. Regulation (EU) 2018/669 (XI Atp. CLP)
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16. Regulation (EU) 2019/521 (XII Atp. CLP)

- The Merck Index. - 10th Edition

- Handling Chemical Safety

- INRS - Fiche Toxicologique (toxicological sheet)

- Patty - Industrial Hygiene and Toxicology

- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

- IFA GESTIS website

- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

## CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 08 / 09 / 10 / 11 / 12 / 15 / 16.