

**MITANOL CVT**

Revision date: 12.10.2023

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

**1.1. Product identifier**

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

**Use of the substance/mixture**

gear oil

**Uses advised against**

No information available.

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

Company name: MITANOL GmbH  
 Street: Industriestraße 8  
 Place: D-49577 Ankum  
 Telephone: +49 (0)5462/7470-50  
 e-mail: info@mitanol.de  
 Internet: www.mitanol.de  
 Responsible Department: Produktsicherheit / Product Safety  
 sicherheitsdatenblatt@mitanol.de

Telefax: +49 (0)5462/7470-33

**1.4. Emergency telephone**

**number:** Gifftinformationszentrum Nord (Göttingen)

+49 (0)551/19240

**SECTION 2: Hazards identification**

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

**GB CLP Regulation**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

**2.2. Label elements**

**Additional advice on labelling**

According to EC directives or the corresponding national regulations the product does not have to be labelled.

**2.3. Other hazards**

Endocrine disrupting properties: phenol, dodecyl-, branched.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Hazardous components**

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	GHS Classification	
	Reaction product of alkylthioalcohol and substituted phosphorus compound	0,1 - 0,99 %
	424-820-7	
	01-0000017126-75	
	Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 1; H312 H314 H400 H410	
121158-58-5	phenol, dodecyl-, branched	0,01 - 0,09 %
	310-154-3	
	604-092-00-9	
	01-2119513207-49	
	Repr. 1B, Skin Corr. 1C, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H360F H314 H318 H400 H410	

Full text of H and EUH statements: see section 16.

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**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
	424-820-7	Reaction product of alkylthioalcohol and substituted phosphorus compound	0,1 - 0,99 %
		dermal: LD50 = > 500 mg/kg; oral: LD50 = > 2000 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10	
121158-58-5	310-154-3	phenol, dodecyl-, branched	0,01 - 0,09 %
		dermal: LD50 = ca. 15000 mg/kg; oral: LD50 = 2100 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10	

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove affected person from the danger area and lay down.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After inhalation**

Provide fresh air. Call a doctor if you feel unwell.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap.

Take off contaminated clothing and wash it before reuse.

In case of skin irritation, consult a physician.

**After contact with eyes**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**After ingestion**

Rinse mouth thoroughly with water.

Let water be drunken in little sips (dilution effect).

Do NOT induce vomiting.

In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Use water spray jet to protect personnel and to cool endangered containers.

Co-ordinate fire-fighting measures to the fire surroundings.

- Water spray jet
- Foam
- Carbon dioxide (CO<sub>2</sub>).
- Extinguishing powder

**Unsuitable extinguishing media**

High power water jet.

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

Non-flammable. Formation of toxic gases is possible during heating or in case of fire.

In case of fire may be liberated:

- Carbon monoxide (CO)

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- Carbon dioxide (CO<sub>2</sub>).
- Pyrolysis products, toxic

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. Use of protective clothing  
In case of fire and/or explosion do not breathe fumes.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**General advice**

Keep people at a distance and stay on the windward side.  
Special danger of slipping by leaking/spilling product.

**For non-emergency personnel**

Wear protective gloves/protective clothing and eye/face protection.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.  
Do not allow to enter into soil/subsoil.  
Prevent spread over a wide area (e.g. by containment or oil barriers).

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

**For containment**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.  
Remove from the water surface (e.g. skimming, sucking).

**6.4. Reference to other sections**

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Avoid formation of oil dust.  
Use personal protection equipment.  
Do not put any product-impregnated cleaning rags into your trouser pockets.  
Clear spills immediately.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.  
Take precautionary measures against static discharges.  
Keep away from sources of ignition - No smoking.

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

**Requirements for storage rooms and vessels**

Keep only in the original container in a cool, well-ventilated place.  
Keep container tightly closed.  
Floors should be impervious, resistant to liquids and easy to clean.

**Hints on joint storage**

No special measures are necessary.

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**Further information on storage conditions**

Note Regulation on facilities for the storage, filling and handling water-polluting substances. ...

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

gear oil

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

**8.1. Control parameters**

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
	Reaction product of alkylthioalcohol and substituted phosphorus compound			
	Worker DNEL, long-term	inhalation	systemic	1,76 mg/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	0,5 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	0,43 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	0,25 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	0,25 mg/kg bw/day
121158-58-5	phenol, dodecyl-, branched			
	Worker DNEL, acute	inhalation	systemic	44,18 mg/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	0,25 mg/kg bw/day
	Worker DNEL, acute	dermal	systemic	166 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	0,79 mg/m <sup>3</sup>
	Consumer DNEL, acute	inhalation	systemic	13,26 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	0,075 mg/kg bw/day
	Consumer DNEL, acute	dermal	systemic	50 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	0,075 mg/kg bw/day
	Consumer DNEL, acute	oral	systemic	1,26 mg/kg bw/day

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**PNEC values**

CAS No	Substance	
Environmental compartment		Value
Reaction product of alkylthioalcohol and substituted phosphorus compound		
Freshwater		0,0009 mg/l
Freshwater (intermittent releases)		0,0009 mg/l
Marine water		0,00009 mg/l
Freshwater sediment		0,73 mg/kg
Marine sediment		0,073 mg/kg
Secondary poisoning		10 mg/kg
Micro-organisms in sewage treatment plants (STP)		5 mg/l
Soil		0,086 mg/kg
121158-58-5	phenol, dodecyl-, branched	
Freshwater		0,000074 mg/l
Freshwater (intermittent releases)		0,00037 mg/l
Marine water		0,000007 mg/l
Freshwater sediment		0,226 mg/kg
Marine sediment		0,027 mg/kg
Secondary poisoning		4 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		0,118 mg/kg

**Additional advice on limit values**

To date, no national critical limit values exist.

**8.2. Exposure controls**



**Protective and hygiene measures**

Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and after work.

When using do not eat, drink, smoke, sniff.

**Eye/face protection**

During filling, metering, mixing and sampling must be used:

Wear eye/face protection. EN 166

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Recommended glove articles: EN ISO 374

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,4 mm

Breakthrough times and swelling properties of the material must be taken into consideration. Breakthrough time: > 8h

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

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**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

Usually no personal respirative protection necessary.

In case of inadequate ventilation wear respiratory protection.

**SECTION 9: Physical and chemical properties**

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

Physical state:	Liquid
Colour:	brown
Odour:	characteristic
Odour threshold:	not determined

**Test method**

pH-Value:	not determined
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**Changes in the physical state**

Melting point/freezing point:	not determined
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Boiling point or initial boiling point and boiling range:	not determined
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Pour point:	not determined
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Flash point:	> 150 °C	ASTM D 92
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**Flammability**

Solid/liquid:	not determined
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**Explosive properties**

The product is not: Explosive. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Lower explosion limits:	not determined
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Upper explosion limits:	not determined
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Auto-ignition temperature:	not determined
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Decomposition temperature:	not determined
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**Oxidizing properties**

The product is not: oxidising.

Vapour pressure:	not determined
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Density (at 20 °C):	0,844 g/cm <sup>3</sup>
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Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.
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**Solubility in other solvents**

not determined

Partition coefficient n-octanol/water:	not determined
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Viscosity / kinematic: (at 40 °C)	33 mm <sup>2</sup> /s
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Relative vapour density:	not determined
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Evaporation rate:	not determined
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**9.2. Other information**

Solid content:	not determined
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**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

The formation of combustible vapours is possible at temperatures above: Flash point

**10.4. Conditions to avoid**

Avoid: Thermal decomposition

**10.5. Incompatible materials**

Materials to avoid:

- Acids
- Reducing agent
- Oxidising agent

**10.6. Hazardous decomposition products**

Hazardous combustion products:

- Carbon monoxide (CO)
- Carbon dioxide (CO<sub>2</sub>)
- Pyrolysis products, toxic

**SECTION 11: Toxicological information**

**11.1. Information on hazard classes as defined in GB CLP Regulation**

**Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
	Reaction product of alkylthioalcohol and substituted phosphorus compound				
	oral	LD50 > 2000 mg/kg	Rat	Study report (1996)	OECD Guideline 401
	dermal	LD50 > 500 mg/kg	Rabbit	Study report (1996)	OECD Guideline 402
121158-58-5	phenol, dodecyl-, branched				
	oral	LD50 2100 mg/kg	Rat	Publication (1978)	OECD Guideline 401
	dermal	LD50 ca. 15000 mg/kg	Rabbit	Study report (1968)	OECD Guideline 402

**Irritation and corrosivity**

Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

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**Aspiration hazard**

Based on available data, the classification criteria are not met.

**11.2. Information on other hazards**
**Endocrine disrupting properties**

See section: 12.6

**SECTION 12: Ecological information**
**12.1. Toxicity**

Test results raise the calculated contribution of reaction product from alkylthioalcohol and a substituted phosphorus compound (EG 424-820-7), as this substance is part of a tested Alkyl phosphite mixture "is. Acute and chronic water tests using the "alkyl phosphite mixture" were carried out lead to a classification of Acute Aquatic 3. The classification of the Product is then determined using the classification (Acute Aquatic 3) and the wt% of the "Alkyl phosphite mixture" as well as the classification and% by weight of the other substances with an im Product calculated according to existing aquatic classification.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
	Reaction product of alkylthioalcohol and substituted phosphorus compound					
	Acute fish toxicity	LC50 1,5 mg/l	96 h			
	Acute algae toxicity	ErC50 mg/l 0,31	72 h	Pseudokirchneriella subcapitata	Study report (1996)	EU Method C.3
	Acute crustacea toxicity	EL50 mg/l 0,09	48 h	Daphnia magna	Study report (1996)	EU Method C.2
	Crustacea toxicity	NOEC mg/l 0,14	21 d	Daphnia magna	Study report (2001)	OECD Guideline 211
	Acute bacteria toxicity	(EC50 mg/l) > 50	3 h	Activated sludge	Study report (1996)	OECD Guideline 209
121158-58-5	phenol, dodecyl-, branched					
	Acute fish toxicity	LL50 40 mg/l	96 h	Pimephales promelas	Study report (1994)	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l 0,15	72 h	Desmodesmus subspicatus	Study report (2005)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l 0,037	48 h	Daphnia magna	Study report (2005)	OECD Guideline 202
	Fish toxicity	NOEC mg/l 0,0037	21 d	Daphnia magna (Big water flea)	ECHA Dossier	
	Crustacea toxicity	NOEC mg/l 0,004	21 d	Daphnia magna	Study report (2005)	OECD Guideline 211
	Acute bacteria toxicity	(EC50 mg/l) > 1000	3 h	activated sludge of a predominantly industrial sew	Study report (2004)	OECD Guideline 209

**12.2. Persistence and degradability**

The product has not been tested.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
121158-58-5	phenol, dodecyl-, branched				
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	25%	28		
	Not readily biodegradable (according to OECD criteria)				

**12.3. Bioaccumulative potential**

The product has not been tested.

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**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
121158-58-5	phenol, dodecyl-, branched	7,14

**BCF**

CAS No	Chemical name	BCF	Species	Source
121158-58-5	phenol, dodecyl-, branched	289	Oncorhynchus mykiss	Study report (2006)

**12.4. Mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

**12.6. Endocrine disrupting properties**

Endocrine disrupting properties: phenol, dodecyl-, branched.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

- 14.1. UN number:** No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. Packing group:** No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**

- 14.1. UN number:** No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. Packing group:** No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

- 14.1. UN number:** No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. Packing group:** No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)**

- 14.1. UN number:** No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. Packing group:** No dangerous good in sense of this transport regulation.

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**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No dangerous good in sense of this transport regulation.

**14.7. Maritime transport in bulk according to IMO instruments**

No dangerous good in sense of this transport regulation.

**SECTION 15: Regulatory information**

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

**EU regulatory information**

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):  
phenol, dodecyl-, branched

Restrictions on use (REACH, annex XVII):

Entry 30

2004/42/EC (VOC): 0,09 % (0,76 g/l)

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):

1 - slightly hazardous to water

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information**

**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,15,16.

**Abbreviations and acronyms**

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 Harmonized 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

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

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NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

VOC: Volatile Organic Compounds

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

**Relevant H and EUH statements (number and full text)**

H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H360F	May damage fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*