according to Regulation (EC) No 1907/2006

ADDINOL Gas engine oil MG 40 PowerSynth

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

1.1. Product identifier

ADDINOL Gas engine oil MG 40 PowerSynth

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

Use of the substance/mixture

Motor oil.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name: ADDINOL Lube Oil GmbH

Gebäude 4609

Street: Am Haupttor Place: D-06237 Leuna

Telephone: +49 (0) 3461 845-0 Telefax: +49 (0) 3461 845-555

e-mail: info@addinol.de
Contact person: Application Technology

Internet: www.addinol.de

Responsible Department: ADDINOL Application Technology

Supplier

Company name: GEM OILS LIMITED

Place: IRL-H12K298 Regaskin Co. Cavan

Telephone: +353 49 4378116 Telefax: +353 49 4368329

e-mail: sales@gemoils.ie

Contact person: GEM OILS LIMITED Telephone: +353 49 4378116

e-mail: sales@gemoils.ie
Internet: https://gemoils.ie/

1.4. Emergency telephone Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Regulation (EC) No 1272/2008

Special labelling of certain mixtures

EUH208 Contains C14-16-18 Alkyl phenol. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

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

Prolonged/repetitive skin contact may cause skin defattening or dermatitis.

Spilled product must not leak into the ground.

Do not allow uncontrolled leakage of product into the environment.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

according to Regulation (EC) No 1907/2006

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Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (Regulation (EC) No				
64742-54-7	Distillates (petroleum), hydrotreated	d heavy paraffinic; Baseoil - unspec	ified	40 - < 60 %	
	265-157-1		01-2119484627-25		
	Asp. Tox. 1; H304				
68037-01-4	1-Decene, homopolymer, hydrogen	ated		20 - < 40 %	
	500-183-1		01-2119486452-34		
	Asp. Tox. 1; H304				
1190625-94-5	C14-16-18 Alkyl phenol			0.5 - < 1 %	
	931-468-2		01-2119498288-1		
	Skin Sens. 1B, STOT RE 2; H317 H373				
68411-46-1	alkylated diphenylamine			0.5 - < 1 %	
	270-128-1		01-2119491299-23		
	Repr. 2, Aquatic Chronic 3; H361f H				

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity	
	Specific Conc. I	Limits, M-factors and ATE		
64742-54-7	265-157-1	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	40 - < 60 %	
	dermal: LD50 =	= > 5000 mg/kg; oral: LD50 = > 5000 mg/kg		
68037-01-4	500-183-1	1-Decene, homopolymer, hydrogenated	20 - < 40 %	
	dermal: LD50 =	lermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg		
1190625-94-5	931-468-2	C14-16-18 Alkyl phenol	0.5 - < 1 %	
	dermal: LD50 =	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg		
68411-46-1	270-128-1	alkylated diphenylamine	0.5 - < 1 %	
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg			

Further Information

DMSO-Extrakt < 3 %, IP 346.

Classification system: The classification corresponds to the current EC lists and is completed by information from specialist literature and company information.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Self-protection of the first aider. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

After inhalation

Move victim to fresh air. Put victim at rest and keep warm. Seek medical attention if problems persist.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, seek medical treatment.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

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After ingestion

Do NOT induce vomiting.

Rinse mouth thoroughly with water. Call a physician immediately.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam. Extinguishing powder. Carbon dioxide (CO2). Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2). Sulfur oxides. Nitrogen oxides (NOx). Hydrogen sulphide (H2S). carbon black.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet to protect personnel and to cool endangered containers. In case of fire and/or explosion do not breathe fumes. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

High slip hazard because of leaking or spilled product. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

Other information

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. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8
Section 12: Ecological Information (non-mandatory)

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Work in well-ventilated zones or use proper respiratory protection. Avoid oil mist If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid contact with skin, eyes and clothes.

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Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Advice on general occupational hygiene

Wash hands before breaks and after work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not eat, drink, smoke or sneeze at the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Keep container tightly closed in a cool place. Keep/Store only in original container.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Keep away from: Oxidizing agent

Further information on storage conditions

Recommended storage temperature: 5 - 40°C Protect against: heat. UV-radiation/sunlight. frost.

7.3. Specific end use(s)

Further information: see technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; E	Baseoil - unspecified		
Worker DNEL,	long-term	inhalation	systemic	2,73 mg/m³
Worker DNEL,	long-term	inhalation	local	5,58 mg/m³
Worker DNEL,	long-term	dermal	systemic	0,97 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	local	1,19 mg/m³
Consumer DN	EL, long-term	oral	systemic	0,74 mg/kg bw/day
1190625-94- 5	C14-16-18 Alkyl phenol			
Worker DNEL,	long-term	inhalation	systemic	1,17 mg/m³
Worker DNEL,	long-term	dermal	systemic	0,3 mg/kg bw/day
68411-46-1	alkylated diphenylamine			
Worker DNEL,	long-term	inhalation	systemic	0,6 mg/m³
Worker DNEL,	long-term	dermal	systemic	0,08 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	0,14 mg/m³
Consumer DN	EL, long-term	dermal	systemic	0,04 mg/kg bw/day
Consumer DN	Consumer DNEL, long-term		systemic	0,04 mg/kg bw/day

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PNEC values

CAS No	Substance	
Environmental	compartment	Value
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	
Secondary poi	soning	9,33 mg/kg
1190625-94- 5	C14-16-18 Alkyl phenol	
Freshwater		0,1 mg/l
Freshwater (in	termittent releases)	1 mg/l
Marine water		0,01 mg/l
Freshwater se	diment	4266,16 mg/kg
Marine sediment		426,62 mg/kg
Secondary poi	soning	3,3 mg/kg
Micro-organisr	ns in sewage treatment plants (STP)	100 mg/l
Soil		852,58 mg/kg
68411-46-1	alkylated diphenylamine	
Freshwater		0,034 mg/l
Freshwater (in	termittent releases)	0,51 mg/l
Marine water		0,003 mg/l
Freshwater sediment		0,446 mg/kg
Marine sediment		0,045 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		1,76 mg/kg

Additional advice on limit values

Recommended limit value for oil mist

TWA: 5 mg/m³ STEL: 10 mg/m³

Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2. Exposure controls





Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

$Individual\ protection\ measures, such\ as\ personal\ protective\ equipment$

Eye/face protection

Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): EN 166

Hand protection

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): EN ISO 374

Duration of wearing with permanent contact: 480 min

Suitable material: NBR (Nitrile rubber). Thickness of glove material: 0.7 mm.

Wearing time with occasional contact (splashes): 30 min

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Suitable material: NBR (Nitrile rubber). Thickness of glove material: 0.4 mm

Protect skin by using skin protective cream.

Skin protection

Wear suitable protective clothing. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Cosaint riospráide le scagaire i gcoinne gás orgánach agus gaile cineál A - fiuchphointe> 65 ° C: A1: <1000 ppm; A2: <5000 ppm; A3: <10,000 ppm.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid Colour: brown

Odour: like: mineral oil.
Odour threshold: not determined

Test method

Melting point/freezing point:

Boiling point or initial boiling point and

No data available
not determined

boiling range:

Flammability:

Lower explosion limits:

Upper explosion limits:

No data available

No data available

No data available

Flash point: 250 °C DIN EN ISO 2592

Auto-ignition temperature: not determined

Decomposition temperature: No data available
pH-Value: not applicable

Viscosity / kinematic: 14.1 mm²/s ASTM D 7042

(at 100 °C)

Water solubility: virtually insoluble

Solubility in other solvents

No data available

Partition coefficient n-octanol/water:

Vapour pressure:

No data available

No data available

Density (at 15 °C): 0,865 g/cm³ DIN 51757

Relative vapour density:

No data available

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

No data available
Self-ignition temperature

Solid: No data available
Gas: No data available

Oxidizing properties

No data available

Other safety characteristics

Evaporation rate: No data available

Pour point: -35 °C ASTM D 7346

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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Refer to chapter 7 No further action is necessary.

Do not overheat to avoid decomposition by heat.

10.5. Incompatible materials

Reacts with: Oxidising agent, strong. Acid.

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2). Sulfur oxides. Nitrogen oxides (NOx). Hydrogen sulphide (H2S). carbon black. No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

Mixture not tested.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
64742-54-7	Distillates (petroleum), hy	drotreated h	eavy paraffii	nic; Baseoil - unspecified		
	oral	LD50 mg/kg	> 5000	Rat	Study report (1982)	OECD Guideline 401
	dermal	LD50 mg/kg	> 5000	Rabbit	Study report (1982)	OECD Guideline 402
68037-01-4	1-Decene, homopolymer	, hydrogenate	ed			
	oral	LD50 mg/kg	> 5000	Rat	Study report (1994)	OECD Guideline 401
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1995)	OECD Guideline 402
1190625-94- 5	C14-16-18 Alkyl phenol					
	oral	LD50 mg/kg	> 2000	Rat	Study report (2014)	OECD Guideline 423
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2015)	OECD Guideline 402
68411-46-1	alkylated diphenylamine					
	oral	LD50 mg/kg	> 5000	Rat	Study report (1982)	OECD Guideline 401
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1988)	OECD Guideline 402

Irritation and corrosivity

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

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Sensitising effects

Contains C14-16-18 Alkyl phenol. May produce an allergic reaction.

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.

Prolonged/repetitive skin contact may cause skin defattening or dermatitis.

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

not applicable

SECTION 12: Ecological information

12.1. Toxicity

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

No data available

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
64742-54-7	Distillates (petroleum), hy	drotreated l	heavy paraffir	nic; Base	oil - unspecified		
	Acute fish toxicity	LL50 mg/l	> 100	96 h	Pimephales promelas	Study report (1995)	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	>100	72 h			
	Fish toxicity	NOEC mg/l	>= 1000	14 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a
68037-01-4	1-Decene, homopolymer,	hydrogena	ted				
	Acute fish toxicity	LL50 mg/l	> 1000	96 h	Oncorhynchus mykiss	Study report (1995)	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	> 1000	96 h	Pseudokirchneriella subcapitata	Study report (1995)	OECD Guideline 201
	Acute crustacea toxicity	EL50 mg/l	> 1000	48 h	Daphnia magna	Study report (1995)	OECD Guideline 202
68411-46-1	alkylated diphenylamine						
	Acute fish toxicity	LC50 mg/l	> 100	96 h	Danio rerio	Study report (1988)	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Desmodesmus subspicatus	Study report (2006)	OECD Guideline 201
	Acute crustacea toxicity	EC50	51 mg/l	48 h	Daphnia magna	Study report (2004)	OECD Guideline 202

12.2. Persistence and degradability

Not easily bio-degradable (according to OECD-criteria). Do not allow to enter into surface water or drains.

12.3. Bioaccumulative potential

Mixture not tested.

according to Regulation (EC) No 1907/2006

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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
68037-01-4	1-Decene, homopolymer, hydrogenated	> 6,5
1190625-94-5	C14-16-18 Alkyl phenol	> 16000000
68411-46-1	alkylated diphenylamine	6,66

BCF

CAS No	Chemical name	BCF	Species	Source
68411-46-1	alkylated diphenylamine	411	Cyprinus carpio	Study report (2000)

12.4. Mobility in soil

Due to its low solubility in water the product is almost completely mechanically separated in biological waste water treatment plants.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No data available

Further information

Do not allow uncontrolled leakage of product into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Must not be disposed of with domestic refuse. Do not allow to enter into surface water or drains.

List of Wastes Code - residues/unused products

130206

OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; synthetic engine, gear and

lubricating oils; hazardous waste

Contaminated packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Dispose of waste according to applicable legislation. Packing which cannot be properly cleaned must be thrown away.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	-
14.2. UN proper shipping name:	-
14.3. Transport hazard class(es):	-
14.4. Packing group:	_

Inland waterways transport (ADN)

14.1. UN number or ID number:	-
14.2. UN proper shipping name:	-
14.3. Transport hazard class(es):	-
14.4. Packing group:	_

Marine transport (IMDG)

14.1. UN number or ID number:	-
14.2. UN proper shipping name:	-
14.3. Transport hazard class(es):	-

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14.4. Packing group:

Segregation group: bromates

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:
14.2. UN proper shipping name:
14.3. Transport hazard class(es):
14.4. Packing group:

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

Other applicable information

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75

National regulatory information

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): 5.7.8.9.10.11.12.

Abbreviations and acronyms

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

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ADN -European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ASTM - American Society for the Testing of Materials; ATE - Acute Toxicity Estimates; bw - Body weight; CAO -Cargo Aircraft Only; CAS - Chemical Abstracts Service; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DNEL - Derived No-Effect Level; DOT -Department of Transportation; DSL - Domestic Substances List (Canada); EG - European Union; EN -European standards; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n;o;s; - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; OECD - Organization for Economic Co-operation and Development; PBT -Persistent, Bioaccumulative and Toxic substance; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European

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Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulation concerning the International Carriage of Dangerous Goods by Rail; RQ - Reportable Quantity; SADT - Self- Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Relevant H and EUH statements (number and full text)

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.
H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains C14-16-18 Alkyl phenol. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

Further Information

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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.)