

ORALITE® 5019 yellow (020)

Revision date: 17.02.2020

Product code: 5019-020(USA)

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1. Identification**Product identifier**

ORALITE® 5019 yellow (020)

Further trade namesORALITE® 5019 UV Digital Printing Ink
yellow (020)**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Color (UV Digital Printing Ink)

Uses advised against

Do not use for private purposes (household).

Details of the supplier of the safety data sheet

Company name:	ORAFOL Europe GmbH	
	Germany	
Street:	Orafolstraße 1	
Place:	D-16515 Oranienburg	
Telephone:	+ 49 3301 864 0	Telefax: + 49 3301 864 100
e-mail:	msds@orafol.de	
Internet:	www.orafol.com	

Emergency phone number: American Association of Poison Control Centers 1-800-222-1222.**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2
Respiratory or skin sensitization: Skin Sens. 1A
Reproductive toxicity: Repr. 2
Specific target organ toxicity repeated or prolonged exposure: STOT RE 1
Hazardous to the aquatic environment: Aquatic Chronic 2

Label elements**Regulation (EC) No. 1272/2008****Signal word:** Danger**Pictograms:****Hazard statements**

Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation
Suspected of damaging fertility; suspected of damaging the unborn child
Causes damage to organs through prolonged or repeated exposure
Toxic to aquatic life with long lasting effects

Precautionary statements

Obtain special instructions before use.
Do not breathe dust/fume/gas/mist/vapors/spray.

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Wash hands thoroughly after handling.
 Avoid release to the environment.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Take off contaminated clothing and wash it before reuse.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.
 If skin irritation or rash occurs: Get medical advice/attention.
 Collect spillage.
 Store locked up.
 Dispose of contents/container to an appropriate recycling or disposal facility.

Special labelling of certain mixtures

10 - < 15 % of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment.

10 - < 15 % of the mixture consists of ingredient(s) of unknown acute toxicity.

Hazards not otherwise classified

No information available.

3. Composition/information on ingredients
Mixtures
Hazardous components

CAS No	Components	Quantity
66492-51-1	(5-ethyl-1,3-dioxan-5-yl)methyl acrylate	49.99 %
5888-33-5	Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)	19.99 %
48145-04-6	2-Phenoxyethyl acrylate	19.99 %
2235-00-9	N-Vinylcaprolactam	19.99 %
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	4.99 %
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	2.99 %
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	2.49 %
52408-84-1	Glycerol propoxy triacrylate	2.49 %

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

4. First-aid measures
Description of first aid measures
General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.
 Medical treatment necessary.

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 immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Medical treatment necessary.

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Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Remove casualty to fresh air and keep warm and at rest. Where appropriate artificial ventilation.

5. Fire-fighting measures**Extinguishing media****Suitable extinguishing media**Carbon dioxide (CO₂), Extinguishing powder, Foam. Co-ordinate fire-fighting measures to the fire surroundings.**Unsuitable extinguishing media**

Dry extinguishing powder, Water mist.

Specific hazards arising from the chemical

Non-flammable. In case of fire may be liberated: Gases/vapors, harmful

Special protective equipment and precautions for fire-fighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Immediately remove any contaminated clothing, shoes or stockings.

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

Provide adequate ventilation. Do not breathe gas/fume/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

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.

Methods and material for containment and cleaning up

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

Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

7. Handling and storage**Precautions for safe handling****Advice on safe handling**

Obtain special instructions before use. If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fume/vapour/spray. Use personal protection equipment.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Further information on handling

Use extractor hood (laboratory). When using do not eat or drink.

Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

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Hints on joint storage

Do not store together with: Organic peroxides and self-reactive substances, Explosives.

8. Exposure controls/personal protection
Control parameters
Exposure limits

CAS No.	Substance	ppm	mg/m ³	f/cc	Category	Origin
128-37-0	2,6-Di-tert-butyl-p-cresol	-	10		TWA (8 h)	REL

Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fume/vapour/spray.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Suitable eye protection: goggles.

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. 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.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Dangerous for the environment. Discharge into the environment must be avoided.

9. Physical and chemical properties
Information on basic physical and chemical properties

Physical state: Liquid
 Color: yellow
 pH-Value: not determined

Changes in the physical state

Melting point/freezing point: not determined
 Initial boiling point and boiling range: ca. 132 °C
 Flash point: 96 °C

Flammability

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Solid:	not applicable
Gas:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	236 °C
Auto-ignition temperature	
Solid:	not applicable
Gas:	not applicable
Decomposition temperature:	not determined
Oxidizing properties	
Not oxidising.	
Vapor pressure: (at 20 °C)	0,03 hPa
Density:	1,095 g/cm ³
Water solubility:	not determined
Solubility in other solvents	
not determined	
Partition coefficient:	not determined
Vapor density:	not determined
Evaporation rate:	not determined
<u>Other information</u>	
Solid content:	not determined

10. Stability and reactivity

Reactivity

No hazardous reaction when handled and stored according to provisions.

Chemical stability

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

No known hazardous reactions.

Conditions to avoid

none/none

Incompatible materials

No information available.

Hazardous decomposition products

In case of fire may be liberated: Gases/vapors, harmful

11. Toxicological information

Information on toxicological effects

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Acute toxicity

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
66492-51-1	(5-ethyl-1,3-dioxan-5-yl)methyl acrylate				
	oral	LD50 > 2000 mg/kg	Rat	Study report (2011)	OECD Guideline 423
	dermal	LD50 > 2000 mg/kg	Rat		
5888-33-5	Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)				
	oral	LD50 4350 mg/kg	Rat	Study report (1974)	Standard acute method. Study conducted p
	dermal	LD50 > 3000 mg/kg	Rabbit	Study report (1974)	other: pre-guideline
48145-04-6	2-Phenoxyethyl acrylate				
	oral	LD50 5000 mg/kg	Rat	Study report (1981)	OECD Guideline 401
2235-00-9	N-Vinylcaprolactam				
	oral	LD50 1114 mg/kg	Rat	Study report	OECD Guideline 401
	dermal	LD50 1700 mg/kg	Rabbit	Study report (1993)	OECD Guideline 402
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1989)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2011)	OECD Guideline 402
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide				
	oral	LD50 > 2000 mg/kg	Rat	Study report (1996)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1996)	OECD Guideline 402
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1972)	An acute oral toxicity study was perform
	dermal	LD50 > 2000 mg/kg		Other company data (1981)	
52408-84-1	Glycerol propoxy triacrylate				
	oral	LD50 > 2000 mg/kg	Rat	Study report (1993)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rabbit	Study report (1983)	OECD Guideline 402

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): Trimethylolpropane triacrylate, technical grade (CAS 15625-89-5) is listed in group 2B. Butylated hydroxytoluene (BHT) (CAS 128-37-0) is listed in group 3.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Specific hazards arising from the chemical!



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12. Ecological information

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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CAS No	Components					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
66492-51-1	(5-ethyl-1,3-dioxan-5-yl)methyl acrylate					
	Acute fish toxicity	LC50 4 mg/l	96 h	Oncorhynchus mykiss	Study report (2010)	OECD Guideline 203
	Acute algae toxicity	ErC50 34 mg/l	72 h	Desmodesmus subspicatus	Study report (2010)	OECD Guideline 201
	Acute crustacea toxicity	EC50 20 mg/l	48 h	Daphnia magna	Study report (2010)	OECD Guideline 202
5888-33-5	Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)					
	Acute fish toxicity	LC50 0,704 mg/l	96 h	Danio rerio	Study report (2013)	OECD Guideline 203
	Acute algae toxicity	ErC50 1,98 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (2013)	OECD Guideline 201
	Crustacea toxicity	NOEC 0,092 mg/l	21 d	Daphnia magna	Study report (2013)	OECD Guideline 211
48145-04-6	2-Phenoxyethyl acrylate					
	Acute algae toxicity	ErC50 4,4 mg/l	72 h	Desmodesmus subspicatus	Study report (1989)	ISO 8692
	Acute crustacea toxicity	EC50 1,21 mg/l	48 h	Daphnia magna (Big water flea)		static
	Acute bacteria toxicity	(177 mg/l)	3 h	Activated sludge	Study report (2013)	ISO 8192
2235-00-9	N-Vinylcaprolactam					
	Acute fish toxicity	LC50 318 mg/l	96 h	Danio rerio	Study report (1995)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Desmodesmus subspicatus	Study report (1993)	other: 79/831/EEC, Annex V, part C
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna	Study report (1993)	EU Method C.2
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide					
	Acute fish toxicity	LC50 1 - 10 mg/l	96 h	Danio rerio	Study report (2004)	Screening study
	Acute algae toxicity	ErC50 > 2,01 mg/l	72 h	Pseudokirchneriella subcapitata	Study report	OECD Guideline 201
	Acute crustacea toxicity	EC50 3,53 mg/l	48 h	Daphnia magna	Study report (2012)	OECD Guideline 202
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide					
	Acute fish toxicity	LC50 > 0,09 mg/l	96 h	Danio rerio	Study report (1997)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 0,26 mg/l	72 h	Desmodesmus subspicatus	Study report (1997)	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 1,175 mg/l	48 h	Daphnia magna	Study report (1997)	OECD Guideline 202
	Crustacea toxicity	NOEC >= 0,0081 mg/l	21 d	Daphnia magna	Study report (2003)	OECD Guideline 211
	Acute bacteria toxicity	(> 100 mg/l)	3 h	activated sludge, domestic	Study report (1997)	OECD Guideline 209
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate					
	Acute fish toxicity	LC50 0,87 mg/l	96 h	Danio rerio	Study report (2016)	OECD Guideline 203

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	Acute algae toxicity	ErC50 mg/l	4,86	96 h	Desmodesmus subspicatus	Study report (1989)	EU Method C.3
	Acute crustacea toxicity	EC50 mg/l	19,9	48 h	Daphnia magna	Study report (1991)	EU Method C.2
52408-84-1	Glycerol propoxy triacrylate						
	Acute fish toxicity	LC50 mg/l	5,74	96 h	Danio rerio	Study report (2010)	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	12,2	72 h	Desmodesmus subspicatus	Study report (2010)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	91,4	48 h	Daphnia magna	Study report (2010)	OECD Guideline 202

Persistence and degradability

The product has not been tested.

Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Components	Log Pow
66492-51-1	(5-ethyl-1,3-dioxan-5-yl)methyl acrylate	1,9
5888-33-5	Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)	4,52
48145-04-6	2-Phenoxyethyl acrylate	ca. 2,58
2235-00-9	N-Vinylcaprolactam	1,2
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	3,1
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	5,8
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	4,35
52408-84-1	Glycerol propoxy triacrylate	2,52

BCF

CAS No	Components	BCF	Species	Source
5888-33-5	Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)	37	Danio rerio	Study report (2006)
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	47 - 55	Cyprinus carpio	Study report (1989)
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	< 5	Cyprinus carpio	Study report (1997)
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	344		The BCF was calculated

Mobility in soil

The product has not been tested.

Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

13. Disposal considerations
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.

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Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

14. Transport information

US DOT 49 CFR 172.101

UN/ID number: UN 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es): 9
Packing group: III
 Hazard label: 9



Marine transport (IMDG)

UN number: UN 3082
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Phenoxyethyl acrylate, (5-ethyl-1,3-dioxan-5-yl)methyl acrylate, Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate), ...)
Transport hazard class(es): 9
Packing group: III
 Hazard label: 9



Special Provisions: 274, 335, 969
 Limited quantity: 5 L
 Excepted quantity: E1
 EmS: F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

UN number: UN 3082
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Phenoxyethyl acrylate, (5-ethyl-1,3-dioxan-5-yl)methyl acrylate, Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate), ...)
Transport hazard class(es): 9
Packing group: III
 Hazard label: 9



Special Provisions: A97 A158 A197
 Limited quantity Passenger: 30 kg G
 Passenger LQ: Y964
 Excepted quantity: E1
 IATA-packing instructions - Passenger: 964
 IATA-max. quantity - Passenger: 450 L
 IATA-packing instructions - Cargo: 964
 IATA-max. quantity - Cargo: 450 L

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Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: (2-Phenoxyethyl acrylate, (5-ethyl-1,3-dioxan-5-yl)methyl acrylate, Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate), ...)

Special precautions for user

No information available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

Other applicable information

This product is not regulated as a dangerous good when transported in sizes of <=5 L or <=5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

Special provisions: ADR + IMDG SV 375, IATA SP A197

15. Regulatory information
U.S. Regulations
National regulatory information

SARA Section 311/312 Hazards:

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate (66492-51-1): Immediate (acute) health hazard

Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate) (5888-33-5): Immediate (acute) health hazard

2-Phenoxyethyl acrylate (48145-04-6): Immediate (acute) health hazard

N-Vinylcaprolactam (2235-00-9): Immediate (acute) health hazard, Delayed (chronic) health hazard

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8): Immediate (acute) health hazard

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7): Immediate (acute) health hazard

2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate (15625-89-5): Immediate (acute) health hazard

Glycerol propoxy triacrylate (52408-84-1): Immediate (acute) health hazard

State Regulations
Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information

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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%

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Classification for mixtures and used evaluation method according to GHS

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1A; H317	Calculation method
Repr. 2; H361fd	Calculation method
STOT RE 1; H372	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H statements (full text)

H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H361d	Suspected of damaging the unborn child
H361f	Suspected of damaging fertility
H361fd	Suspected of damaging fertility; suspected of damaging the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life

Other data

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.)