

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

077185143

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

077185127

Date of Issue: November 2010  
N.A. = not applicable, N.K. = not known

Supersedes version of: October 2007

**1. Identification of the Substance/Preparation and of the Company/Undertakings****Product Details:**

Trade Name: BioSonic® Germicidal Ultrasonic Cleaner Concentrate Cat. No. UC38, UC38SM, UC42

**Manufacturer:****Coltène/Whaledent Inc.**

235 Ascot Parkway

Cuyahoga Falls, OH 44223/USA

Fax +1 330 916 7077

[info@coltenewhaledent.com](mailto:info@coltenewhaledent.com)

Authorized EU Representative

**Coltène/Whaledent GmbH+ Co. KG**

Raiffeisenstrasse 30

89129 Langenau/Germany

Tel. +49 (0) 7345 805 0

Fax +49 (0) 7345 805 201

**Emergency Contact Numbers:**

USA &amp; Canada: 1 800 535 5053

Main Phone Number: +1 330 916 8800

**2. Composition/Information on Ingredients****Chemical Characterization:** Alkaline, phenolic disinfectant/detergent**Hazardous Components:**

<u>Chemical Name</u>	<u>Weight %</u>	<u>Index, R/S Phrases</u>
Isopropanol	5 – 10%	F, R11, S7-16
Sodium OrthoBenzyl Parachlorophenate	1 – 5%	None
Sodium Ortho Phenyphenate	1 – 5%	XN, R22-38-41, S22-26
Sodium Para Tertiary Amyl Phenate	1 – 5%	None

**3. Hazard Identification**

Hazard Designation: Danger, Corrosive.

Information Pertaining to Particular Dangers for Man and Environment: Causes irreversible eye damage or skin burns. May be fatal if swallowed. Harmful if absorbed through skin or inhaled. Do not get in eyes, on skin or on clothing. Avoid breathing spray mist.

Classification is in line with BC directive 1999/45/EC: N.A.

**4. First-Aid Measures****If in Eyes:** Hold eye open and rinse slowly and gently with plenty of water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes then continue rinsing eye. Call a Poison Control Center or doctor for treatment advice.**If on Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for treatment advice.**If Swallowed:** Call a Poison Control Center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told by a Poison Control Center or doctor. Do not give anything by mouth to an unconscious person.**If Inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible. Call a Poison Control Center or doctor for further treatment advice.**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage. Measure against circulatory shock, respiratory depression and convulsion may be needed.**5. Fire-Fighting Measures****Flammability:** Yes**Flash Point:** 45.7°C (115°F)**LEL:** Not Established**UEL:** Not EstablishedExtinguishing Media: Water, CO<sub>2</sub>, dry chemical or foam.

Unsuitable Extinguishing Media: None known.

Protective Equipment: Wear NIOSH approved self-contained breathing respirator in positive pressure mode and chemical protective clothing.

**6. Accidental Release Measures**

Personal Precautions: Avoid eye contact by wearing safety goggles; avoid skin contact by wearing rubber gloves. Local exhaust adequate for vapor removal; mechanical ventilation helpful.

Environmental Precautions: Do not contaminate food or feed with this product. Keep container closed and upright when not in use.

Methods of Cleaning Up: Use absorbent material such as sand or clay, and place in drums for disposal. Do not allow large amounts of undiluted material into sewer system because of its aquatic toxicity and potential damage to sewer treatment facilities.

**7. Handling and Storage**

Precautions for Safe Handling: Always wear gloves and eye protection. Local exhaust adequate; mechanical ventilation helpful. Keep container closed when not in use.

Storage: Keep out of reach of children. Store in a securely closed original container. Avoid storage at temperature extremes or in sunlight. Do not contaminate with water, food or feed by storage or disposal. Do not store with water, food or feed.

**8. Exposure Controls/Personal Protection**

Components with recommended limits for the work place.

<u>CAS No.</u>	<u>Description</u>	<u>Weight %</u>	<u>Type/Value</u>
67-63-0	Isopropanol	5 – 10%	OSHA PEL 400 ppm
120-32-1	Sodium Ortho Benzyl Parachlorophenate	1 – 5%	N.K.
132-27-4	Sodium Ortho Phenylphenate	1 – 5%	N.K.
80-46-6	Sodium Para Tertiary Amyl Phenate	1 – 5%	N.K.

Engineering Controls: Local Exhaust Adequate; mechanical ventilation helpful.

Work/Hygienic Protection: Wash hands and equipment after use.

Hand/Skin Protection: Wear protective clothing (long-sleeved shirt and long pants, socks plus shoes and chemical resistant gloves).

Respiratory Protection: Avoid breathing spray mists.

Eye Protection: Wear goggles or face shield (safety glasses).

**9. Physical and Chemical Properties**

Appearance: Clear amber liquid	Odor: Floral odor	Solubility: Infinitely soluble in water
Boiling Point: 100°C (212°F)	Flash Point: 45.7°C (115°F)	Method: Setaflash
Flammability: Yes	Autoflammability: No	Density: 1.03 g/cc (25°C )
Vapor Pressure: N.K.	Explosive Properties: N.K.	Explosive Limits in Air: N.K.
pH: Conc, 12.2 Dilute (1:128) 9.8	Viscosity: 25 cps	Method: Brookfield LVT#1, 30 RPM

**10. Stability and Reactivity**

Chemical Stability: Stable	Conditions to avoid: Open flame, strong oxidizers
Materials to avoid: None	Hazardous Decomposition Products: None Known

**11. Toxicological Information**

Acute Toxicity: N.A.  
 Primary Effects to Skin: Draize, non-irritant, rabbit.  
 Primary Effects to Eyes: Draize, moderate irritant, rabbit.  
 Primary Effects to Respiratory System: N.K.  
 Sensitization: N.A.  
 Additional Toxicological Info: LD50 4.26 +/- 1.04 ml/kg – albino rats.

**12. Ecological Information**

General Information: Degradability – 52% BOD/COD.  
 Classification of Water Endangerment: N.A.

**13. Disposal Considerations**

Product: Securely wrap original container in several layers of newspaper and discard in trash.  
 Container: Do not reuse container. Replace cap and discard container in trash.

**14. Transportation Information**

DOT Shipping Name: Flammable Liquid, Corrosive N.O.S. (Isopropanol, Sodium Hydroxide)	DOT Hazard Class: Class 3 Flammable	UN-No. UN-2924 Packing Group III
Sea Transport IMDG/GGV Sea Class: N.A.	UN. No.: UN-2924 Packing Group: III	EmS-No: N.A. MFGA-No: N.A.
Air Transport ICAO-Ti and IATA-DGR Class: N.A.	UN. No.: UN-2924 Packing Group: III	

**15. Regulatory Information**

TSCA Inventory Status: This product and/or all of its components are included on the TSCA Inventory of Chemical Substances.  
 SARA 311/312 Hazard Categories: Fire.  
 SARA 302 Extremely Hazardous Substances: None.  
 SARA 313 Toxic Chemicals:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Weight %</u>
Sodium Orthophenylphenate	132-27-4	1 – 5%
Isopropanol	67-63-0	5 – 10%

Classification According to EEC Guidelines: N.A.  
 Classification According to VBF: N.A.  
 Canadian Regulations require the inclusion of the following statements under "Regulatory Information";  
 "This product has been classified in accordance with the hazard criteria of the controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations."

**16. Other Information**

Revision Summary: 11/29/10 – Review, no changes. 10/02/07 – Removed Marine Pollutant from Section 12. 4/26/06 consistent format. 1/12/06 Bi-annual review, changed to 1999/45/EC in section 3, 91/155/EEC changed to 2001/58/EC. 11/11/04 – Updated sections 3, 4, 7 and 13 to reflect EPA label. 4/30 Updated Emergency Contact Information. Corrected flashpoint 3/17/04. Changed to Company Format and Updated Address 10/24/03.

The information and recommendations set forth herein are presented in good faith and are believed to be correct as of the date hereof. Coltène/Whaledent Inc., however, makes no representations as to the completeness of this information and supplies it on the condition that the persons receiving same will make their own determination as to its suitability of their purposes prior to use. In no event will Coltène/Whaledent Inc. be responsible for damages of any nature whatsoever resulting from use of or reliance upon information.

according to Regulation (EC) No 1907/2006

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

UC38\_42 BioSonic Germicidal Ultrasonic Cleaner Concentrate

**Further trade names**

Cat. No. UC38

Cat. No. UC38SM

Cat. No. UC42

SDS Number 48025-01A

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.3. Details of the supplier of the safety data sheet****Manufacturer**

Company name: COLTENE/Whaledent Inc.  
Street: 235 Ascot Parkway  
Place: Cuyahoga Falls, OH 44223/USA  
Telephone: +1 (330) 916 8800  
Telefax: +1 (330) 916 7077  
e-mail: info.us@coltene.com  
Internet: www.coltene.com

**Authorized Representative**

Company name: COLTENE/Whaledent GmbH & Co. KG  
Street: Raiffeisenstraße 30  
Place: D-89129 Langenau  
Telephone: +49 (7345) 805 0  
Telefax: +49 (7345) 805 201  
e-mail: info.de@coltene.com  
Internet: www.coltene.com

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Flammable liquid: Flam. Liq. 3

Skin corrosion/irritation: Skin Corr. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Skin Sens. 1B

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Flammable liquid and vapour.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

chlorophene

tetrasodium ethylene diamine tetraacetate

4-tert-Amylphenol

Sodium hydroxide; caustic soda

**Signal word:** Danger

according to Regulation (EC) No 1907/2006

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**Pictograms:****Hazard statements**

H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P352	Wash with plenty of water.
P362+P364	Take off contaminated clothing and wash it before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER/doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P391	Collect spillage.
P370+P378	In case of fire: In case of fire, use sand, extinguishing powder or alcohol resistant foam.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

**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			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			< 10 %
	200-661-7	603-117-00-0		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
120-32-1	clorophene			< 5 %
	204-385-8			
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, Aquatic Chronic 1; H302 H315 H318 H335 H410			
64-02-8	tetrasodium ethylene diamine tetraacetate			< 5 %
	200-573-9	607-428-00-2		
	Acute Tox. 4, Eye Dam. 1; H302 H318			
132-27-4	2-phenylphenol, sodium salt, sodium 2-biphenylate			1 - < 5 %
	205-055-6	604-021-00-1		
	Acute Tox. 4, STOT SE 3, Skin Irrit. 2, Eye Dam. 1, Aquatic Acute 1; H302 H335 H315 H318 H400			
68081-81-2	Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts			1 - < 5 %
	268-356-1			
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1; H302 H315 H318			
80-46-6	4-tert-Amylphenol			< 3 %
	201-280-9			
	Acute Tox. 4, Acute Tox. 4, Skin Sens. 1, Aquatic Chronic 1; H302 H312 H317 H410			
12179-04-3	disodium tetraborate pentahydrate; borax pentahydrate			< 1 %
	215-540-4	005-011-02-9		
	Repr. 1B; H360FD			

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

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

Provide fresh air.

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

In case of irregular breathing or respiratory arrest provide artificial respiration. Call a physician immediately.

**After contact with skin**

Change contaminated clothing.

After contact with skin, wash immediately with: Water.

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.

**After ingestion**

Seek medical advice immediately.

Let water be drunken in little sips (dilution effect). Do NOT induce vomiting.

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**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**Water spray. Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>). Sand.**5.3. Advice for firefighters**

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

**Additional information**

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

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

See protective measures under point 7 and 8.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

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

Avoid contact with skin and eyes.  
for professional use only Keep out of the reach of children.  
Observe instructions for use.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

**Further information on handling**

Always close containers tightly after the removal of product.

**7.2. Conditions for safe storage, including any incompatibilities****Advice on storage compatibility**

Do not allow to enter into surface water or drains.

**Further information on storage conditions**

Store in a cool dry place.  
Store at temperatures not exceeding 48 °C/120 °F.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

**8.2. Exposure controls****Protective and hygiene measures**

When using do not eat, drink or smoke.

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**Eye/face protection**

Framed glasses.

**Hand protection**

Wear suitable gloves.

**Skin protection**

Lab apron.

**Respiratory protection**

Provide adequate ventilation.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	transparent amber

**Test method**

pH-Value:	11.50 - 12.50
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**Changes in the physical state**

Initial boiling point and boiling range:	100 °C
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Flash point:	46 °C
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Density (at 25 °C):	1.05 - 1.07 g/cm³
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Water solubility:	highly soluble.
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**SECTION 10: Stability and reactivity****10.4. Conditions to avoid**

heat.

**10.5. Incompatible materials**

Oxidizing agents.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

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



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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
120-32-1	chlorophene				
	oral	LD50 1700 mg/kg	Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 48 hours after exposure. Rat		
64-02-8	tetrasodium ethylene diamine tetraacetate				
	oral	ATE 500 mg/kg			
132-27-4	2-phenylphenol, sodium salt, sodium 2-biphenylate				
	oral	ATE 500 mg/kg			
68081-81-2	Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts				
	oral	ATE 500 mg/kg			
80-46-6	4-tert-Amylphenol				
	oral	LD50 1830 mg/kg	Rat		
	dermal	LD50 2000 mg/kg	Rabbit		

**Irritation and corrosivity**

Causes severe skin burns and eye damage.

**Sensitising effects**

May cause an allergic skin 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.

**Aspiration hazard**

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

**Additional information on tests**

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

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
120-32-1	clorophene					
	Acute fish toxicity	LC50 mg/l	0.238	96 h	Lepomis macrochirus	literature value
	Acute crustacea toxicity	EC50 mg/l	0.546	48 h	Daphnia magna	literature value
132-27-4	2-phenylphenol, sodium salt, sodium 2-biphenylate					
	Acute fish toxicity	LC50	6,1 mg/l	96 h		GESTIS

**12.3. Bioaccumulative potential****Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
120-32-1	clorophene	3.6

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

Dispose of waste according to applicable legislation.

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b>14.1. UN number:</b>	UN 2924
<b>14.2. UN proper shipping name:</b>	FLAMMABLE LIQUID, CORROSIVE, N.O.S. Isopropanol, sodium hydroxide
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	III
Hazard label:	3+8
Classification code:	FC
Special Provisions:	274
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	38
Tunnel restriction code:	D/E

**Marine transport (IMDG)**

<b>14.1. UN number:</b>	UN 2924
<b>14.2. UN proper shipping name:</b>	FLAMMABLE LIQUID, CORROSIVE, N.O.S. isopropanol, sodium hydroxide
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	III
Hazard label:	3+8
Special Provisions:	223, 274
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-E, S-C

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

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<b>14.1. UN number:</b>	UN 2924
<b>14.2. UN proper shipping name:</b>	FLAMMABLE LIQUID, CORROSIVE, N.O.S. isopropanol, sodium hydroxide
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	III
Hazard label:	3+8
Special Provisions:	A3 A803
Limited quantity Passenger:	1 L
Passenger LQ:	Y342
Excepted quantity:	E1
IATA-packing instructions - Passenger:	354
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	365
IATA-max. quantity - Cargo:	60 L

**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):  
disodium tetraborate pentahydrate; borax pentahydrate

Restrictions on use (REACH, annex XVII):

Entry 30: disodium tetraborate pentahydrate; borax pentahydrate

**Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

**National regulatory information****Additional information**

Canada WHMIS: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**SECTION 16: Other information****Relevant H and EUH statements (number and full text)**

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360FD	May damage fertility. May damage the unborn child.
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.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our

according to Regulation (EC) No 1907/2006

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