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

Trade name :	Meltclean		
Revision date :	31.05.2017	**Version (Revision) :**	4.0.0 (3.0.2)
Print date :	17-04-2018		

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

1.1 Product identifier
Meltclean

1.2 Relevant identified uses of the substance or mixture and uses advised against
Washing and cleaning products (including solvent based products)

1.3 Details of the supplier of the safety data sheet
Supplier (manufacturer/importer/only representative/downstream user/distributor)
Bit Hotmelt Technology

Street : Kastanjeweg 7 (Industrieterrein Tappersheul)

Postal code/city : 3421 TD Oudewater

Telephone : +31 (0) 348 - 563839

Information contact : info@bithotmelt.com

1.4 Emergency telephone number
NL - Nationaal Vergiftigingen Informatie Centrum NVIC - Bilthoven + 31 30 274 88 88 (Uitsluitend bestemd om artsen te informeren bij accidentele vergiftigingen)
BE - Antigifcentrum - Brussel + 32 70 245 245 (een arts beantwoordt uw oproep)
BE - Centre Anti-poison - Bruxelles + 32 70 245 245 (un médecin répondra à votre appel)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [CLP]
Asp. Tox. 1 ; H304 - Aspiration hazard : Category 1 ; May be fatal if swallowed and enters airways.

2.2 Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms

Health hazard (GHS08)

Signal word

Danger

Hazard components for labelling

HYDROCARBONS, C10-C13, N-ALKANES, ISO-ALKANES, CYCLIC; Nota P

Hazard statements

H304	May be fatal if swallowed and enters airways.

Precautionary statements

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331	Do NOT induce vomiting.
P501	Dispose of contents/container for chemical waste.

2.3 Other hazards
None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

HYDROCARBONS, C10-C13, N-ALKANES, ISO-ALKANES, CYCLIC; Nota P ; REACH registration No. : 01-2119457273-39 ; EC No. : 918-481-9

Weight fraction : ≥ 50 %
Classification 1272/2008 [CLP] : Asp. Tox. 1 ; H304

2-(2-BUTOXYETHOXY)ETHANOL ; REACH registration No. : 01-2119475104-44 ; EC No. : 203-961-6; CAS No. : 112-34-5

Weight fraction : ≥ 2,5 - < 10 %
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY ; REACH registration No. : 01-2119486659-16 ; EC No. : 265-150-3; CAS No. : 64742-48-9

Weight fraction : ≥ 1 - < 2,5 %
Classification 1272/2008 [CLP] : Asp. Tox. 1 ; H304

ALCOHOLS, C12-14 ETHOXYLATED ; REACH registration No. : 01-2119487984-16 ; EC No. : 500-213-3; CAS No. : 68439-50-9

Weight fraction : < 1 %
Classification 1272/2008 [CLP] : Aquatic Acute 1 ; H400 Aquatic Chronic 3 ; H412

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

In case of skin contact

Wash immediately with: Water and soap

After eye contact

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

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

The following symptoms may occur: Pulmonary oedema

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam Water mist

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

No information available.

5.3 Advice for firefighters

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

5.4 Additional information

Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Provide adequate ventilation. Remove persons to safety. See protective measures under point 7 and 8.

6.2 Environmental precautions

Cover drains. Do not allow to enter into soil/subsoil. Ensure waste is collected and contained.

6.3 Methods and material for containment and cleaning up

Suitable material for taking up: Universal binder Collect in closed and suitable containers for disposal. Clean contaminated articles and floor according to the environmental legislation.

6.4 Reference to other sections

None

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

All work processes must always be designed so that the following is as low as possible: Inhalation of vapours or spray/mists

Measures to prevent fire

Provide earthing of containers, equipment, pumps and ventilation facilities.

Environmental precautions

Shafts and sewers must be protected from entry of the product.

Specific requirements or handling rules

Clean floors and contaminated objects with : Water and soap

7.2 Conditions for safe storage, including any incompatibilities

None

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5

Limit value type (country of origin) :	STEL (EC)
Limit value :	15 ppm / 101,2 mg/m^3
Version :	07-02-2006
Limit value type (country of origin) :	TWA (EC)
Limit value :	10 ppm / 67,5 mg/m^3
Version :	07-02-2006

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY ; CAS No. : 64742-48-9

Limit value type (country of origin) :	MAC (NL)
Limit value :	1200 mg/m^3 / 184 ppm
Version :	

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Eye glasses with side protection

Skin protection

Hand protection

Suitable gloves type : DIN EN 374

Suitable material : NBR (Nitrile rubber) PVA (Polyvinyl alcohol) PE (polyethylene)

Required properties : liquid-tight.

Breakthrough time (maximum wearing time) : >480 min

Thickness of the glove material : 0,12 mm

Body protection

Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

General health and safety measures

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : characteristic

Safety relevant basis data

Freezing point :	(1013 hPa)	<	0	°C	
Initial boiling point and boiling range :	(1013 hPa)		No data available		
Decomposition temperature :	(1013 hPa)		No data available		
Flash point :			65	°C	
Ignition temperature :			200	°C	
Lower explosion limit :			0,6	Vol-%	
Upper explosion limit :			7	Vol-%	
Vapour Pressure :	(20 °C)	approx.	1	hPa	
Density :	(20 °C)		0,8	g/cm^3	
Water solubility :	(20 °C)		insoluble		
pH :			not applicable		
log P O/W :			No data available		
Flow time :	(20 °C)		No data available		DIN-cup 4 mm
Viscosity :	(20 °C)		No data available		
Odour threshold :			No data available		
Relative vapour density :	(20 °C)		No data available		
Evaporation rate :			No data available		
Oxidising liquids :	Not applicable.				
Explosive properties :	No data available.				

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity
No information available.

10.2 Chemical stability
No information available.

10.3 Possibility of hazardous reactions
No information available.

10.4 Conditions to avoid
No information available.

10.5 Incompatible materials
No information available.

10.6 Hazardous decomposition products
Gases/vapours, flammable

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter :	LD50 (HYDROCARBONS, C10-C13, N-ALKANES, ISO-ALKANES, CYCLIC; Nota P)
Exposure route :	Oral
Effective dose :	> 5000 mg/kg
Parameter :	LD50 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY ; CAS No. : 64742-48-9)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg

Acute dermal toxicity

Parameter :	LD50 (HYDROCARBONS, C10-C13, N-ALKANES, ISO-ALKANES, CYCLIC; Nota P)
Exposure route :	Dermal
Effective dose :	> 5000 mg/kg
Parameter :	LD50 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY ; CAS No. : 64742-48-9)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 5000 mg/kg

Acute inhalation toxicity

Parameter :	LC50 (HYDROCARBONS, C10-C13, N-ALKANES, ISO-ALKANES, CYCLIC; Nota P)
Exposure route :	Inhalation
Effective dose :	> 4951 mg/m^3
Parameter :	LC50 (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY ; CAS No. : 64742-48-9)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	> 4951 mg/m^3
Exposure time :	4 h

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter :	LC0 (HYDROCARBONS, C10-C13, N-ALKANES, ISO-ALKANES, CYCLIC; Nota P)
Species :	Oncorhynchus mykiss (Rainbow trout)
Effective dose :	1000 mg/l
Exposure time :	96 h
Parameter :	LC50 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Species :	Lepomis macrochirus (Bluegill)
Effective dose :	1300 mg/l
Exposure time :	96 h
Parameter :	LC0 (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY ; CAS No. : 64742-48-9)
Species :	Oncorhynchus mykiss (Rainbow trout)
Effective dose :	1000 mg/l
Exposure time :	96 h

Acute (short-term) daphnia toxicity

Parameter :	EC0 (HYDROCARBONS, C10-C13, N-ALKANES, ISO-ALKANES, CYCLIC; Nota P)
Species :	Daphnia magna (Big water flea)
Effective dose :	1000 mg/l
Exposure time :	48 h
Parameter :	EC50 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Species :	Daphnia magna (Big water flea)
Effective dose :	> 100 mg/l
Exposure time :	48 h
Parameter :	EC0 (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY ; CAS No. : 64742-48-9)
Species :	Daphnia magna (Big water flea)
Effective dose :	1000 mg/l
Exposure time :	48 h

Acute (short-term) algae toxicity

Parameter :	EC0 (HYDROCARBONS, C10-C13, N-ALKANES, ISO-ALKANES, CYCLIC; Nota P)
Species :	Pseudokirchneriella subcapitata
Effective dose :	1000 mg/l
Exposure time :	72 h
Parameter :	EC50 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Species :	Scenedesmus subspicatus
Effective dose :	> 100 mg/l
Exposure time :	96 h
Parameter :	EC0 (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY ; CAS No. : 64742-48-9)
Species :	Pseudokirchneriella subcapitata
Effective dose :	1000 mg/l
Exposure time :	72 h

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

None

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Delivery to an approved waste disposal company.

Product/Packaging disposal

Waste treatment options

Appropriate disposal / Package

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

SECTION 14: Transport information

14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

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

not applicable

SECTION 15: Regulatory information

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

None

15.2 Chemical safety assessment

No information available, because for the substance no chemical safety report is required.

SECTION 16: Other information

16.1 Indication of changes

02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 03. Hazardous ingredients

16.2 Abbreviations and acronyms

a.i. = Active ingredient
ACGIH = American Conference of Governmental Industrial Hygienists (US)
ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road
AFFF = Aqueous Film Forming Foam
AISE = International Association for Soaps, Detergents and Maintenance Products (joint project of AISE and CEFIC)
AOAC = AOAC International (formerly Association of Official Analytical Chemists)
aq. = Aqueous

ASTM = American Society of Testing and Materials (US)
atm = Atmosphere(s)
B.V. = Beperkt Vennootschap (Limited)
BCF = Bioconcentration Factor
bp = Boiling point at stated pressure
bw = Body weight
ca = (Circa) about
CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society)
CEFIC = European Chemical Industry Council (established 1972)
CIPAC = Collaborative International Pesticides Analytical Council
CLP = REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
Conc = Concentration
cP = CentiPoise
cSt = Centistokes
d = Day(s)
DIN = Deutsches Institut für Normung e.V.
DNEL = Derived No-Effect Level
DT50 = Time for 50% loss; half-life
EbC50 = Median effective concentration (biomass, e.g. of algae)
EC = European Community; European Commission
EC50 = Median effective concentration
EINECS = European Inventory of Existing Commercial Chemical Substances (EU, outdated, now replaced by EC Number)
ELINCS = European List of Notified (New) Chemicals (see Tab 7, Background - Guide)
ErC50 = Median effective concentration (growth rate, e.g. of algae)
EU = European Union
EWC = European Waste Catalogue
FAO = Food and Agriculture Organization (United Nations)
GIFAP = Groupement International des Associations Nationales de Fabricants de Produits Agrochimiques (now CropLife International)
h = Hour(s)
hPa = HectoPascal (unit of pressure)
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IC50 = Concentration that produces 50% inhibition
IMDG Code = International Maritime Dangerous Goods Code
IMO = International Maritime Organization
ISO = International Organization for Standardization
IUCLID = International Uniform Chemical Information Database
IUPAC = International Union of Pure and Applied Chemistry
kg = Kilogram
Kow = Distribution coefficient between n-octanol and water
kPa = KiloPascal (unit of pressure)
LC50 = Concentration required to kill 50% of test organisms
LD50 = Dose required to kill 50% of test organisms
LEL = Lower Explosive Limit/Lower Explosion Limit
LOAEL = Lowest observed adverse effect level
mg = Milligram
min = Minute(s)
ml = Milliliter
mmHg = Pressure equivalent to 1 mm of mercury (133.3 Pa)
mp = Melting point
MRL = Maximum Residue Limit
MSDS = Material Safety Data Sheet
n.o.s. = Not Otherwise Specified
NIOSH = National Institute for Occupational Safety and Health (US)
NOAEL = No Observed Adverse Effect Level
NOEC = No observed effect concentration
NOEL = No Observable Effect Level
NOx = Oxides of Nitrogen
OECD = Organization for Economic Cooperation and Development

OEL = Occupational Exposure Limits
Pa = Pascal (unit of pressure)
PBT = Persistent, Bioaccumulative or Toxic
pH = -log10 hydrogen ion concentration
pKa = -log10 acid dissociation constant
PNEC = Previsible Non Effect Concentration
POPs = Persistent Organic Pollutants
ppb = Parts per billion
PPE = Personal Protection Equipment
ppm = Parts per million
ppt = Parts per trillion
PVC = Polyvinyl Chloride
QSAR = Quantitative Structure-Activity Relationship
REACH = Registration, Evaluation and Authorization of CHemicals (EU, see NCP)
SI = International System of Units
STEL = Short-Term Exposure Limit
tech. = Technical grade
TSCA = Toxic Substances Control Act (US)
TWA = Time-Weighted Average
vPvB = Very Persistent and Very Bioacccumulative
WHO = World Health Organization = OMS
y = Year(s)

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Calculation method

16.5 Relevant H- and EUH-phrases (Number and full text)

H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

Notice the directions for use on the label.

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.