eorganic	S 22 DIA				
Corganic		IETHYL-2-BUT			
Version 1.1, Revision: 0	SAFETY DATA SHEE'	I (according to Regulatio	n (EC) No. 1907/2006/ GEO-0		
	DENTIFICATION OF THE SUB	STANCE/MIXTURE AN		6	
1.1 Product identifiers					
Product name: 3,3-E	Dimethyl-2-butanone	EC number: 2	200-920-4		
CAS-No.: 75-97-8		Product Code			
	uses of the substance or mixture	and uses advised against			
	poratory chemicals, Manufacture of				
1.3 Details of the suppl	ier of the safety data sheet:				
Georganics Ltd., Ko	preničova 1, 811 03 Bratislava, Slo	vak Republic			
Phone Number: +42	21 33 6403132, E-mail address: geo	organics@georganics.sk			
1.4 Emergency telepho	ne number: National Toxicologica	al Information Centre, Tel: -	+421-2-54774166, Mob: +	-421 911 166 066	
	SECTION 2 -	- HAZARDS IDENTIFICA	ATION		
2.2 Label elements	rmation: For full text of Hazard- a rding Regulation (EC) No 1272/200 Hazard statements: H225-Highly flammable liquid H302-Harmful if swallowed. Precautionary statements: P210-Keep away from heat/span P261-Avoid breathing dust/fum	08 and vapour. rks/open flames/hot surfaces e/gas/mist/vapours/spray.	s. — No smoking.	nwell Rinse mouth	
2.3 Other hazards P301+P312+P330-IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Supplemental Hazard information (EU): Not applicable This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS					
3.1 Substances					
Identification numbers	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008	SCL / M-factor / ATE	

= 100% $= 125.H302$	EC: 200-920-4	•	4 - FIRST AID MEASU	,	
	CAS: 75-97-8	3.3-Dimethyl-2-butanone	<= 100%	H225-H302	_

4.1 Description of first aid measures			
General notes	General notes Consult a physician. Show this safety data sheet to the doctor in attendance.		
If inhaled	If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.		
In case of skin contact Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.			
In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.			
If swallowed Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with			
water. Consult a physician.			
4.2 Most important symptoms and effects, both acute and delayed			
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11			

4.3 Indication of any immediate medical attention and special treatment needed No data available

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SECTION 5 - FIREFIGHTING MEASURES

5.1 Extinguishing media Suitable extinguishing media:

tinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media:

5.2 Special hazards arising from the substance or mixture - During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion. Pay attention to flashback. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air at ambient temperatures.

5.3 Advice for firefighters - Wear self-contained breathing apparatus and protective clothing to prevent contact with skin/eyes.
5.4 Further information - Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures - Wear protective equipment. Ensure adequate ventilation. Keep unprotected persons away. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Wash spill site after material pickup is complete.
6.2 Environmental precautions - Prevent further leakage or spillage if safe to do so. Do not let this chemical enter the environment.
6.3 Methods and materials for containment and cleaning up – Spilled product should be covered with suitable (non-flammable) absorbing material. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation
6.4 Reference to other sections - See Section 7 for information on safe handling. See section 8 for information on personal protection

6.4 Reference to other sections - See Section 7 for information on safe handling. See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling – For precautions see section 2.2.

Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Ensure adequate ventilation. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities - Store in a dry, cool and well-ventilated place. Keep container closed when not in use. See Section 10 for stability and reactivity information. Flammables area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

7.3 Specific end use(s) - No further relevant information available

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

SECTI	
8.1 Control parameters	
8.2 Exposure controls	
Engineering Controls:	Use process enclosure, local exhaust ventilation, or other engineering controls to control
	airborne levels. Safety shower and eye bath.
Personal Protective Equipment	
Eye and face protection:	Wear chemical safety glasses.
Skin protection:	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory protection:	Wear appropriate protective mask with a filter against organic vapors.
Thermal hazard:	No data available
Environmental exposure controls:	Do not let product enter drains.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties					
Physical state:	Liquid	Decomposition temperature:	No data available		
Color:	Clear colourless	рН:	No data available		
Odor:	No data available	Kinematic viscosity:	No data available		
Freezing/Melting Point:	-52,5 °C	Solubility:	No data available		
Boiling Point:	106 °C	Partition coefficient n- octanol/water (log value):	No data available		
Flammability:	No data available	Vapor pressure:	No data available		
Lower and upper explosion limit:	No data available	Density and/or relative density:	No data available		
Flash Point:	17 °C	Relative vapor density:	No data available		
Auto-ignition temperature:	No data available	Particle characteristics:	No data available		
9.2 Other safety information - No data available					

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity - Vapors may form explosive mixture with air.

10.2 Chemical stability - The product is chemically stable under standard ambient conditions (room temperature)

10.3 Possibility of hazardous reactions - No data available

10.4 Conditions to avoid - Incompatible materials. Keep away from heat/sparks/open flames/hot surfaces

10.5 Incompatible materials - Strong oxidizing agents

10.6 Hazardous decomposition products - Carbon oxides

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SECTION 11 - TOXICOLOGICAL INFORMATION

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

Acute toxicity - No data available

Skin irritation or corrosion - Causes skin irritation

Serious eye damage / irritation - Causes serious eye irritation.

Respiratory or skin sensitization - No data available

Germ cell mutagenicity - No data available Carcinogenicity - No data available

Reproductive toxicity - No data available

Specific target organ system toxicity (STOT) - repeated exposure: No data available

Specific target organ system toxicity (STOT) - single exposure: No data available

11.2 Additional Information - To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated. Other dangerous properties cannot be excluded. This substance should be handled with particular care.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity - No data available

12.2 Persistence and degradability - No data available

12.3 Bioaccumulative potential - No data available

12.4 Mobility in soil - No data available

12.5 Results of PBT and vPvB assessment - This substance/mixture contains no components considered to be either persistent,

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties - No data available

12.7 Other adverse effects - No data available

12.8 Additional information - No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal. The product must not be disposed of with municipal waste.

Contaminated packaging Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION 14.1 UN number: ADR/RID: 1224 IMDG: 1224 IATA: 1224 14.2 UN proper shipping name: ADR/RID: KETONES, LIQUID, N.O.S. (3,3-Dimethyl-2-butanone) IMDG: KETONES, LIQUID, N.O.S. (3,3-Dimethyl-2-butanone) IATA: KETONES, LIQUID, N.O.S. (3,3-Dimethyl-2-butanone) 14.3 Transport hazard class(es) ADR/RID: 3 IMDG: 3 IATA: 3 14.4 Packing group ADR/RID: II IMDG: II IATA: II 14.5 Environmental hazards ADR/RID: no IMDG Marine pollutant: no IATA: no 14.6 Special precautions for user: No data available 14.7 Maritime transport in bulk according to IMO instruments - No data available

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Environmental Protection Act 1990 as amended. Clean Air Act 1993 as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

15.2 Chemical safety assessment - No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

JRC - Joint Research Centre

SECTION 16 - OTHER INFORMATION

Key to abbreviations and acronyms used in the safety data sheet ATE - Acute Toxicity Estimate Kow - octanol-water partition coefficient ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road LC50 - Lethal Concentration to 50 % of a test population ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose) CEN - European Committee for Standardisation LE - Legal Entity LoW - List of Wastes C&L - Classification and Labelling (http://ec.europa.eu/environment/waste/framework/list.htm) CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 LR - Lead Registrant CAS# - Chemical Abstracts Service number M/I - Manufacturer / Importer CMR - Carcinogen, Mutagen, or Reproductive Toxicant MS - Member States CSA - Chemical Safety Assessment MSDS - Material Safety Data Sheet CSR - Chemical Safety Report OC - Operational Conditions DNEL - Derived No Effect Level OECD - Organization for Economic Co-operation and Development DPD - Dangerous Preparations Directive 1999/45/EC OEL - Occupational Exposure Limit DSD - Dangerous Substances Directive 67/548/EEC OJ - Official Journal DU - Downstream User OR - Only Representative EC - European Community OSHA - European Agency for Safety and Health at work ECHA - European Chemicals Agency PBT - Persistent, Bioaccumulative and Toxic substance EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS) PEC - Predicted Effect Concentration EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway) PNEC(s) - Predicted No Effect Concentration(s) PPE - Personal Protection Equipment EEC - European Economic Community EINECS - European Inventory of Existing Commercial Substances (Q)SAR - Qualitative Structure Activity Relationship REACH - Registration, Evaluation, Authorisation and Restriction of ELINCS - European List of notified Chemical Substances Chemicals Regulation (EC) No 1907/2006 RID - Regulations concerning the International Carriage of Dangerous EN - European Standard Goods by Rail EQS - Environmental Quality Standard **RIP - REACH Implementation Project** EU - European Union RMM - Risk Management Measure Euphrac - European Phrase Catalogue SCBA - Self-Contained Breathing Apparatus EWC - European Waste Catalogue (replaced by LoW - see below) SDS - Safety data sheet GES - Generic Exposure Scenario SIEF - Substance Information Exchange Forum GHS - Globally Harmonized System SME - Small and Medium sized Enterprises IATA - International Air Transport Association STOT - Specific Target Organ Toxicity (STOT) RE - Repeated Exposure ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air (STOT) SE - Single Exposure IMDG - International Maritime Dangerous Goods SVHC - Substances of Very High Concern IMSBC - International Maritime Solid Bulk Cargoes IT - Information Technology UFI - Unique Formula Identifier IUCLID - International Uniform Chemical Information Database UN - United Nations IUPAC - International Union for Pure Applied Chemistry vPvB - Very Persistent and Very Bioaccumulative

The information contained in the SDS are compiled according to the present knowledge of the manufacturer. It does not represent any guarantee of the properties of the product. SDS shall be used only as a guide. Georganics Ltd. is not liable for damages incurred in the handling or contact with chemicals.