Safety Data Sheet
According to 1907/2006/EC, Article 31

Revision date: 30/08/2023

MULTI-TEF

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier
Product name: MULTI-TEF
Article number: E100051

1.2 Relevant identified uses of the substance or mixture and uses advised against
Application of the substance/the mixture: Lubricant.

1.3 Details of the supplier of the safety data sheet
Company:
MULTITASK INDUSTRIES
KARNEMELKSTRAAT 12
9060 ZELZATE / BELGIUM
TEL : +32 (0)9 282 43 61
FAX : +32 (0)9 337 04 96
HOMEPAGE: www.multitaskindustries.be
EMAIL: info@multitaskindustries.be

Information department:
Technical information: info@multitaskindustries.be

1.4 Emergency telephone number:
Poison control centre (Brussels): +32 (0)70 245 245.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008

GHS02 Flame

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.

GHS07

Skin Irrit. 2	H315	Causes skin irritation.
STOT SE3	H336	May cause drowsiness or dizziness.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.

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Hazard pictograms:

GHS02 GHS07

Signal word: Danger.

Hazard-determining components of labelling: Hydrocarbons, C7-C9, iso-alkanes

Hazard statements (CLP):

H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP):

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P410+P412	protect form sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture
Description: Active substance with propellant.

Dangerous components:		
CAS: 64741-66-8 EC number: 921-728-3 Reg.nr.: 01-2119471305-42	Hydrocarbons, C7-C9, iso-alkanes Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	10-<25%
CAS: 106-97-8 EINECS: 203-448-7	butane (containing < 0,1 % butadiene (203-405-8), Note K) Flam. Gas 1A, H220; Press. Gas (Comp.), H280	10-<25%

Reg.nr.: 01-2119474691-32		
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane	10-<25%
	Flam. Gas 1A, H220; Press. Gas (Comp.), H280	
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27	isobutane (containing < 0,1 % butadieen (203-405-8), Note K)	1-<2,5%
	Flam. Gas 1A, H220; Press. Gas (Comp.), H280	

Additional information: Aerosols and containers fitted with a solid atomizer containing substances or mixtures classified as hazardous by aspiration shall not be labelled for that hazard. The text of the hazard statements mentioned here can be found in chapter 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures
First aid after inhalation: Supply fresh air; consult doctor in case of complaints.
First aid after skin contact: Generally the product does not irritate the skin.
First aid after eye contact: Rinse opened eye for several minutes under running water.
First aid after swallowing: Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing agents: Water haze, fire-extinguishing powder, carbon dioxide, alcohol resistant foam.
For safety reasons unsuitable extinguishing agents: Water with full jet.

5.2 Special hazards arising from the substance or mixture
No further relevant information available.

5.3 Advice for firefighters
Protective equipment: Mount respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected people away.

6.2 Environmental precautions
Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up
Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents.

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 disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Information about fire- and explosion protection: Do not spray onto a naked flame or any incandescent material. Keep ignition sources away – Do not smoke. Protect from heat. Protect against electrostatic charges. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

7.2 Conditions for safe storage, including any incompatibilities
Storage
Requirements to be met by storerooms and receptacles: Store in a cool location. Observe official regulations on storing packaging with pressurised containers.
Information about storage in one common storage facility: Observe official regulations on storing packagings with pressurised containers.
Further information about storage conditions: Store in cool, dry conditions in well-sealed receptacles. Protect form heat and direct sunlight.

7.3 Specific end use(s)
No further relevant information.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
106-97-8 butane (containing < 0,1 % butadiene (203-450-8), Note K)	
VL (Belgium)	Short-term value: 2370 mg/m³, 980 ppm
74-98-6 Propane	
VL (Belgium)	Long-term value: 1000 ppm
75-28-5 isobutane (containing < 0,1 % butadiene (203-450-8), Note K)	
VL (Belgium)	Short-term value: 2370 mg/m³, 980 ppm

DNEL's		
64741-66-8 Hydrocarbons, C7-C9, iso-alkanes		
Oral	DNEL Long term-systemic	699 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	699 mg/kg bw/day (Consumer) 773 mg/kg bw/day (Worker)
Inhalative	DNEL Long term-systemic	608 mg/m³ (Consumer)

		2035 mg/m³ (Worker)

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls
Appropriate engineering controls: No further data; see section 7.
Individual protection measures, such as personal protective equipment
General protective hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/aerosols. General ventilation.
Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.
Filter A2/P2
Hand protection: Solvent resistant gloves. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Material of gloves: The selection of the suitable glove does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material con not be calculated in advance and has therefore to be checked prior to the application. Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0,5 mm
Penetration time of glove material: For continuous contact we recommend gloves with breakthrough time of at least 240 minutes, with the preference given to a breakthrough time greater than 480 minutes. For short-term or splash guard we recommend the same. We are aware that suitable gloves that offer this level of protection may not be available. In that case, a shorter breakthrough time are acceptable as long as the procedures governing maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance of the gloves against a chemical substance, because this depends on the exact composition of the material from which the gloves are made. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye/face protection: Safety glasses

Tightly sealed goggles

Body protection: Use protective suit. (EN-13034/6). Fully skin-covering anti-static, chemical- and oil-resistant clothing and safety shoes are recommended. (EN1149; EN340&EN ISO 13688; EN13034-6).
Environmental exposure controls: Use an appropriate container to avoid environmental pollution.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
General information

Physical state:	Aerosol.
Colour:	According to product specification.
Odour:	Characteristic.
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initital boiling point and boiling range:	-44,5°C
Flammability:	Not applicable.
Lower explosion limit:	0,7 Vol%
Upper explosion limit:	10,9 Vol%
Flash point:	-97°C

Ignition temperature:	>200°C
pH:	The mixture is non-polar/aprotic.
Dynamic viscosity:	Not determined.
Kinematic viscosity:	Not determined.
Solubility in water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value):	Not determined.
Vapour pressure at 20°C:	3000 hPa
Density at 20°C:	0,737 g/cm^3
Relative density:	Not determined.
Vapour density:	Not determined.

9.2 Overige informatie
Form: Aerosol.
Important information on protection of health and environment, and on safety
Ignition temperature: Product is not selfigniting.
Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Organic solvents: 40,0%
Solid content: 0,5%
Evaporation rate: Not applicable.
Information with regard to physical hazard classes
Explosives: Void.
Flammable gases: Void.
Aerosols: Extremely flammable aerosol. Pressurised container: may burst if heated.
Oxidising gases: Vervalt.
Gases under pressure: Void.
Flammable liquids: Void.
Flammable solids: Void.
Self-reactive substances and mixtures: Void.
Pyrophoric liquids: Void.
Pyrophoric solids: Void.
Self-heating substances and mixtures: Void.
Substances and mixtures, which emit flammable gases in contact with water: Void.
Oxidising liquids: Void.
Oxidising solids: Void.
Organic peroxides: Void.
Corrosive to metals: Void.
Desensitised explosives: Void.

10. STABILITY AND REACTIVITY

10.1 Reactivity
No further relevant information available.

10.2 Chemical stability
Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions
No dangerous reactions known.

10.4 Conditions to avoid
No further relevant information available.

10.5 Incompatible materials
No further relevant information available.

10.6 Hazardous decomposition products
No dangerous decomposition products known.

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.

LC/LC50 values relevant for classification:		
64741-66-8 Hydrocarbons, C7-C9, iso-alkanes		
Oral	LD50	>5.000 mg/kg (rat)
Dermal	LD50	>2.000 mg/kg (rabbit)
Inhalative	LC50 (4h)	21 mg/l (rat)

Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/irritation: Based on available data, the classification criteria are not met.
Respiratory or skin sensitization: Based on available data, the classification criteria are not met.
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.
STOT-single exposure: May cause drowsiness or dizziness.
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.

11.2 Information on other hazards
Endocrine disrupting properties: None of the ingredients is listed.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity:	
64741-66-8 Hydrocarbons, C7-C9, iso-alkanes	
NOELR (72h)	6,3 mg/l (Pseudokirchneriella subcapitata)
EL50 (48h)	2,4 mg/l (Daphnia magna)
EL50 (72h)	29 mg/l (Pseudokirchneriella subcapitata)
LL50 (96h)	18,4 mg/l (Oncorhynchus mykiss)
NOEC (21 days)	0,17 mg/l (Daphnia magna)
LOEC (21 days)	0,32 mg/l (Daphnia magna)

12.2 Persistence and degradability
Not easily biodegradable.

12.3 Bioaccumulative potential
No further relevant information available.

12.4 Mobility in soil
No further relevant information available.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

12.6 Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects
Remark: Harmful to fish.
Additional ecological information:
General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.
European waste catalogue:
20 01 13*: Solvents.
15 01 04: Metallic packaging.
HP3: Flammable.
HP14: Ecotoxic.
Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

14.1 UN number or ID number
ADR: UN1950
ADN: UN1950
IMDG: UN1950
IATA: UN1950

14.2 UN proper shipping name
ADR: UN1950 AERSOLS
ADN: UN1950 AEROSOLS
IMDG: AEROSOLS
IATA: AEROSOLS, flammable

14.3 Transport hazard class(es)

ADR

Class: 2 5F Gases

Label: 2.1

IMDG, IATA

Class: 2.1 Gases

Label: 2.1

ADN

ADN/R Class: 2 5F

14.4 Packing group

ADR: Void.

IMDG: Void.

IATA: Void.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Warning: Gases.

Hazard identification number (Kemler code): -

EMS Number: F-D, S-U

Stowage Code: SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

Segregation Code: SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ): 1L

Excepted quantities (EQ): Code:E0

Not permitted as Excepted Quantity.

Tunnel restriction code: D

IMDG
Limited quantities (LQ): 1L
Excepted quantities (EQ): Code: E0
Not permitted as Excepted Quantity.
VN 'Model Regulation': UN 1950 SPUITBUSSEN, 2.1

15. REGULATORY INFORMATION

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

Directive 2012/18/EU
Named dangerous substances – ANNEX I: None of the ingredients is listed.
Seveso-category: P3a FLAMMABLE AEROSOLS
Qualifying quantity (tonnes) fort he application of lower-tier requirements: 150 t
Qualifying quantity (tonnes) fort he application of upper-tier requirements: 500 t
REGULATION (EC) No 1907/2006 ANNEX XVII: Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II: None of the ingredients is listed.
REGULATION (EU) 2019/1148
Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)): None of the ingredients is listed.
Annex II - REPORTABLE EXPLOSIVES PRECURSORS: None of the ingredients is listed.
Regulation (EC) No 273/2004 on drug precursors: None of the ingredients is listed.
Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors: None of the ingredients is listed.

National regulations:
Breakdown regulations:

Class	Share in %
NK	25-<50

VOC-CH: 25,00%
VOC-EU: 294,8 g/l
Danish MAL Code: 2-1

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

Relevant phrases

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

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Classification according to Regulation (EC) No 1272/2008 Physical and chemical properties: The classification is based on the results of the mixtures tested. Health hazards, Environmental hazards: The method of classification of mixtures based on the constituents of the mixture (sum formula).

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 Harmonised 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 (division of the American Chemical Society)
MAL-Code: Måleteknisk Arbejdshygienjnisk Luftbehov (Regulation for the labelling concerning inhalation hazards, Denmark).
DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50percent.
LD50: Lethal dose, 50 percent.
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative.
Flam. Gas 1: Flammable gases – Category 1
Aerosol 1: Aerosols – Category 1
Press. Gas (Comp.): Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment – long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment – long-term aquatic hazard – Category 3
