SAFETY DATA SHEET

Roboze ULTRA

Revision Date June 2014

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

1.1 Product identifier

Trade name	"ULTRA" 3D printing filament
Synonyms	ULTRA

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use	3D printer melted wire storage
Industrial use	
Uses advised against	All uses not advised in recommended use

1.3 Details of the supplier of the safety data sheet

Company
Roboze SpA
via Vincenzo Aulisio 31-33
70124 Bari
Italy
+39 0805057559
support@roboze.com

Emergency telephone number

+39 0805057559

SECTION 2:
Hazards identification

In the polymer blend dangerous ingredients are completely incorporated and surrounded by the polymer matrix, the exposure and the risk related to them are deleted. Therefore the mixture is not dangerous for health and for the environment in the form in which it is placed on the market.

2.1 Classification of the substance or mixture

Physical and chemical effects harmful to human health and the environment	no other danger

2.2 Label elements

In the polymer blend dangerous ingredients are fully incorporated by the polymer matrix, exposure and the risk related to them are deleted.
Therefore the mixture is not dangerous for health and for the environment in the form in which it is placed in the market.

EU labelling The product is not considered dangerous according **to the Regulation [EC] 1272/2008 [CLP].**	free of labeling in accordance with reg. [EC] 1272/2008 – the attachment point 1.3.4. The product is not considered dangerous according
Symbols	None
Indications of danger	None
Safety advice	None
Special provisions	None
Special provisions according to Annex XVII of the REACH and subsequent adjustments	None

2.3 Other hazards

Substance vPvB	None
Substance PBT	None
Other dangers	No other dangers

SECTION 3:
Composition/information on ingredients

3.1 Substances

Concentration [%] 90%
Number CAS CAS: 9051-89-2
EINECS or ELINCS the product is a polymer, following the European Regulation, the registration is EINECS (European Inventory of Existing Commercial Chemical Substances) inventory is not required.
Substances hazardous to health none to our knowledge.
The product is not considered as dangerous according to Regulations EC 1272/2008 (CLP).

SECTION 4:
First aid measures

4.1 Description of first aid measures

In the case of direct contact with the skin	Wash thoroughly with water and soap.
In the case of direct contact with the eyes	Wash immediately and thoroughly with water and consult a doctor.
In case of ingestion	Do NOT induce vomiting. OBTAIN IMMEDIATE MEDICAL ATTENTION.
In case of inhalation	Move to fresh air, in the warmth to rest.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5:
Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Use water spray or carbon dioxide (CO2)
Extinguishing media which must not be used for safety reasons	None in particular

5.2 Special hazards arising from the substance or mixture

Do NOT inhale gas produced by the explosion and by the combustion
The combustion produces heavy fumes.

5.3 Advice for firefighters

Wear self-contained breathing apparatus adequate.
Separately collect contaminated water used to extinguish the fire. Do NOT discharge in the drains/sewages.
If possible under the security profile, move from the immediate indangered area the non damaged containers.

SECTION 6:
Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment.
Remove sources of ignition.
See protective measurements explained in point 7 and 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3 Methods and materials for containment and cleaning up

Use mechanical handling equipment, avoid creating dust. Sweep up the spillage and shovel into suitable containers for disposal.

6.4 Reference to other sections

See paragraph 8 and 13

SECTION 7:
Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Do NOT drink or eat while working.
Please refer to section 8 for recommended protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from food, drinks and animal feed

Incompatibile materials	None in particular. See also paragraph 10 below.
Rooms adequated airy	Rooms adeguately aerated

7.3 Specific end uses

No particular usage

SECTION 8:
Exposure controls/personal protection

8.1 Control parameters

Exposure limits DNEL: N.A.

Exposure limits PNEC: N.A.

8.2 Exposure controls

Eye protection
Not required under normal use conditions. Still operate according to good working practices.

Skin protection
Not required under normal use conditions.

Hand protection
Not required under normal use conditions.

Respiratory protection
Not required under normal use conditions.

Thermal risks
None

Environmental exposure controls
None

Suitable technical controls
None

SECTION 9:
Physical and chemical properties

9.1 Information on basic physical and chemical properties

Colors:	different
Aspects:	cylindrical wire
Smell	weak/light characteristics
Threshold odor	N.A.
pH	N.A.
Melting/freezing point	160/-40 °C
Initial boiling point and boiling range	N.A.
Inflamable solid/gas	N.A.
Upper/lower limite of inflammability	N.A.
Density of vapor	N.A.
Velocity of evaporation	N.A.
Pressure of vapor	N.A.
Relative density	1.101.55g/cm^3
Water solubility	insoluble
Solubility in oil	160240oC
Partition coefficient (n-octanol/water)	N.A.
Viscosity	N.A.
Explosive properties	N.A.
Oxidising properties	N.A.

9.2 Other information

Miscibility	N.A.
Liposolubility	N.A.
Conductivity	N.A.
Characteristic properties of the group of substances	N.A.

SECTION 10:
Stability and reactivity

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

Stable under normal conditions.

10.5 Incompatible materials

None in particular

10.6 Hazardous decomposition products

Tetrahydrofuran

SECTION 11:
Toxicological information

In the polymer blend dangerous ingredients are completely incorporated and surrounded by the matrix polymer, exposure and the risk related to them are completely eliminated. Therefore the mixture is not dangerous for health and for the environment in the form in which it is placed on the market.

11.1 Information on toxicological effects

Toxicological information on the mixture	N.A.
Toxicological information regarding the principal substance present in themixture	N.A.

Unless otherwise specified, the information required by Regulation 453/2010 / EC listed below must be understood as N.A.:

Acute toxicity:
Corrosion/irritation:
Serious eye damage/eye irritation:
Respiratory or skin sensitization:
Germ cell mutagenicity:
Carcinogenicity:
Reproductive toxicity:
Specific target organ toxicity (STOT) - single exposure:
Specific target organ toxicity (STOT) - repeated exposure
Danger in case of inhalation.

SECTION 12:
Ecological information

The dangerous ingredients, in the polymer, are completely incorporated and surrounded by the polymer matrix, the exposure and the risk related to them are deleted. Therefore the mixture is not dangerous for health and for the environment in the form in which it is placed on the market.

12.1 Toxicity

Use according to good working practices, avoiding the release of the product in the environment	N.A.

12.2 Persistence and degradability

12.3 Bioaccumulative potential

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

Substance vPvB:	None
Substance PBT	None

12.6 Other adverse effects

None

SECTION 13:
Disposal considerations

13.1 Waste treatment methods

Recover if possible. Operate according to local and national regulations.

SECTION 14:
Transport information

14.1 Number ONU (UN)

No dangerous goods as defined by the transport regulations.

14.2 ONU (UN) shipping name : N.A.

14.3 Transport hazard class : N.A.

14.4 Packaging group : N.A.

14.5 Environmental hazard : N.A.

14.6 Special provisions for the users : N.A.

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

SECTION 15:
Regulatory information

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

D.lgs. 9/4/2008 n. 81
D.M. Work 26/02/2004 (occupational exposure limits)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (UE) n. 758/2013
Regulation (UE) n. 453/2010 (attached II)
Regulation (UE) n. 286/2011 (ATP 2 CLP)
Regulation (UE) n. 618/2012 (ATP 3 CLP)

Restrictions relating to the product or contained substances pursuant to Annex XVII to Regulation (EC) 1907/2006 (REACH) subsequent adjustments:

Restrictions relative to the product	None
Where applicable, refer to the following standards	Ministerial circulars 46 e 61 (Aromatic amines).

D.Lgs 21 September 2005 n. 238 (Direttiva Seveso Ter)
Reg. (EU) n. 528/2012 (Biocides)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Provisions relating to directives 82/501/EC (Seveso, 96/82/EC (Seveso II): N.A.

15.2 Chemical Safety Assessment

SECTION 16:
Other information

This document was prepared by a competent person in the field of person who has received appropriate training.

Main bibliographic sources:

ECDIN – Environmental Chemicals Data and Information Network – Joint Research Centre.

Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS – Eight Edition – Van Nostrand Reinold CCNL – Attached 1

Higher Institute of Health – National Chemical Inventory

The information contained herein is based on our knowledge as of the date indicated. They refer solely to the product indicated and constitute no guarantee of particular quality.
The user is obliged to check the suitability and completeness of such information in relation to the specific use intended.

This sheet eliminates and supersedes any previous edition.

All mineral base oils contained in this product have a vaolre < 3 % w DMSO extract according to IP 346/92 (Note I – Dir. 94/69/EC – European Regulation 1272/2008).

It is shown below the text of the note of the European Regulation 1272/2/2008:
The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 "Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl extraction refractive index method ".

Institute of Petroleum, London. This note applies only or certain complex oil-derived substances in Part 3.

ADR: European Agreement concerning the international road transport of dangerous goods.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CLP: Classification, Labelling, Packaging.
DNEL: Derived No-Effect Level.
EINECS: European Inventory of Existing Commercial Chemical Substances European.
GetStoffVO: Ordinance on Hazardous Materials in Germany.
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.
IATA: International Air Transport Association.
IATA – DGR: Dangerous Goods Regulation of the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization.
ICAO – TI: Technical Instructions of the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.

KSt: Coefficient Explosions.
LC50: Lethal Concentration for 50% of test population.
LD50: Lethal Dose for 50 % of test population.
LTE: Long-Term Exposure.
RID: Regulation concerning the International Carriage of Dangerous Goods by Rail.
STE: Short-Term Exposure.
STEL: Short-Term Exposure Limit.
STOT: Specific Organ Toxicity.
TLV: Threshold Limit Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hours. (ACGIH Standard).
WGK: Hazard class for water (Germany).
Rev. O of 02.03.2015 Document complies to Regulation (EC) N.1907/2006: Regulation (EU) N.453/2010