



Safety Data Sheet

(in accordance with Regulation (EC) 1907/2006 – REACH)

Edition No. 4 dated 17/9/2024

1. Identification of the substance/preparation and the company/undertaking

1.1 Product Information

Trade Name: **3YOTS Natural Liquid for Industrial Processes**

- Name: completely vegetable product based on vegetable oils and components
- Use of the Preparation: formulation based on protective anti-adhesive vegetable oil for support tables in laser and plasma cuts

1.2 Producer

EPCM.expert SLR
Via di San Giovanni Battista, 20
38057 Pergine Valsugana (TN)
Tel. +39 (0)461 153 20 80
e-mail: info@EPCM.expert

Note:

As of January 2025, the 3YOTS Slat Juice is so safe that it does not even require an SDS. This SDS is now obsolete.

1.3 Information Provided by

EPCM.expert SRL

1.4 First Aid Information:

Consult a competent medical professional

2. Hazard Identification

2.1 Hazard Classification:

The product is not classified in accordance with Regulation (EC) No. 1272/2008 (CLP). It is not classified as hazardous according to Directive 1999/45/EC and subsequent amendments.

3. Composition

3.1 Chemical Characterization: Mixtures of Natural components

3.2 Chemical Formula: n.a. (not applicable)

3.3 Composition and Identification: Mixture of oils, vegetable components and fats of vegetable origin for industrial uses in non-food processes.

No. CE	No. CAS	Product	Title	Classification
273-313-5	68956-68-3	Mixture of Natural Components	n.a.	n.a.



4. First Aid Measures:

4.1 General Information:

4.2 In case of inhalation:

Move to a well-ventilated area; if discomfort persists, seek medical attention.

4.3 In case of skin contact:

Wash the affected area with soap and water, thoroughly rinsing.

4.4 In case of eye contact with decomposition products:

Flush the eyes thoroughly with lukewarm water for at least 15 minutes, keeping the eyelids wide open.

4.5 In case of ingestion:

Rinse the mouth. DO NOT induce vomiting. In the event of vomiting, keep the head down to prevent stomach contents from entering the lungs. Seek medical attention immediately.

5. Fire Safety Measures

General Fire Hazard: Heating may generate vapors that can form explosive vapor/air mixtures. The material floats and may reignite on the water surface.

5.1 Specific Hazards:

Flash Point > 235°C (DIN ISO 2592)

Combustion can occur with the development of carbon monoxide (CO).

5.2 Specific Precautions:

Wear appropriate protective equipment.

Operate upwind and at a safe distance from flames.

In the event of surrounding fire, move containers if possible under safe conditions; otherwise, cool the containers with misted water.

5.3 Methods of Extinguishing:

Expanded foam. Dry powder. Carbon dioxide (CO₂).

DO NOT USE a water jet as an extinguishing method, as it would spread the fire.

5.4 Protective Equipment:

Self-contained breathing apparatus and eye protection equipment.

6. Measures in Case of Accidental Spill

6.1 Individual Precautions:

High risk of slipping due to product spillage and leakage. When handling chemical products, observe standard precautions. Stop the spill as soon as possible, if feasible, under safe conditions.

6.2 Environmental Precautions:

Avoid releasing wash water into the environment (soil or open waters). In case of environmental contamination, immediately notify local authorities.

6.3 Cleaning Methods: Contain the spilled material with absorbent substances. Non-flammable absorbents (e.g., sand, fossil flour, vermiculite).



7. Handling and Storage

7.1 Handling:

7.1.1 Precautions:

Wear appropriate protective clothing suitable for the activity involving the use of the product.



Wear safety glasses, gloves, and a work suit.

7.1.2 Safety Facilities:

Provide work areas with adequate ventilation and suitable ventilation/exhaust systems.

7.2 Storage:

7.2.1 Storage Conditions:

Keep away from ignition sources, flames, and heat. Store between 0°C and 50°C. Tanks and containers must be stored or installed in areas equipped with a containment basin.

7.3 Suitable Materials:

Coated steel, polyethylene, ebonite, polypropylene, PVC, fiberglass.

8. Control of Exposure/Individual Protection

8.1 Exposure Limit of Contained Substances

Vegetable Oils

TLV/TWA: 10 mg/m³

Cat. : 8 ore

8.2 Technical Measures:

Ensure good ventilation of the work area.

8.3 Hygiene Measures:

Do not eat, drink, or smoke during product handling.



9. Chemical and Physical Properties

1. Physical State:	Liquid
2. Color:	Orange
3. Odor:	Typical
4. pH:	7.5, neutral
5. Melting Point:	- 2 to - 10 °C
6. Boiling Point:	> 300°C
7. Upper and Lower Flammability Limits:	Not Available
8. Explosive Limits:	Non-explosive
9. Oxidizing Properties:	Non-oxidizing
10. Vapor Pressure:	Not Available
11. Vapor Density:	Not Available
12. Liquid Density:	0,93 g/cm ³ a T = 20 °C (DIN 51757)
13. Solubility in Water:	Slightly and/or immiscible
14. Solubility in Organic Solvents:	Soluble
15. Partition Coefficient:	Not Applicable

10. Stability and Reactivity

10.1 Stability:

The product is stable under normal conditions of use and storage.

10.2 Conditions to Avoid:

Avoid heat, sparks, flames, high temperatures on the product when not uniformly applied on the slats, as per the data table in the last page. Dry any eventually excessive deposits beforehand.

10.3 Materials to Avoid:

Strong oxidizing agents.

11. Toxicological Information

11.1 Acute Toxicity:

It is not classified as acutely toxic.

11.2 Localized Effects/Irritant Power:

It is not classified as irritating or as causing serious eye damage.

11.3 Sensitization:

It is not classified as a respiratory or skin sensitizer.

11.4 Carcinogenicity:

No known effects.

11.5 Mutagenicity:

No known effects.

11.6 Reproductive Toxicity:

No known effects.

11.7 Experimental Toxicological Data on Animals:

LD50-oral >5000 mg/kg Species: Rat (OECD 401) [Data taken from technical literature]



12. Ecological Information

12.1 The product is not classifiable as environmentally hazardous.

However, this does not exclude that large or frequent spills may have a harmful or damaging effect on the environment.

12.2 Environmental Effects:

Mobility: No data available

Persistence/Degradability: No data available (Produced with 3YOBASE Ready

Biodegradable)

Bioaccumulation: No data available

13. Disposal Considerations

13.1 Guidance:

Dispose of in accordance with applicable regulations.

European Waste Catalog: 13 02 07* easily biodegradable motor, gear, and lubrication oils.

14. Transportation Information

14.1 Specific Risks:

The product is classified as non-hazardous according to transportation regulations.

14.2 Packaging Information:

The product is typically transported in plastic packaging.

14.3 Transport Classification: NOT REGULATED

14.3.1 Proper Shipping Name:

14.3.2 UN Number:

Not regulated

14.3.3 Packaging Group:

--

14.3.4 International Road/Rail Transport Regulations ADR/RID:

ADR/RID:	Class:	Not regulated
Tunnel Restriction Code:		--
Packaging Group (P.G.):		--
Label No.:		--

14.3.5 National regulations for railway transport RID:

RID	Class:	Not regulated
Packaging Group (P.G.):	Group	--
Label No.:		--

14.3.6 IMO Recommendations for International Maritime Transport

IMO	Class or Division:	Not regulated
Packaging Group (P.G.):		--
Hazard Label No.:		--

14.3.7 IMO National Maritime Transport Recommendations:

IMO	Class or Division:	Not regulated
Packaging Group (P.G.):		--
Hazard Label No.:		--

14.3.8 National and International Air Transport Regulations:

IATA-ICAO	Class:	Not regulated
-----------	--------	---------------



15. Regulatory Information

15.1 Classification:

This mixture does not meet the classification criteria according to Regulation (EC) 1272/2008 as amended.

15.2 Labeling:

The product is not considered hazardous according to current regulations and does not require labeling.

16. Other Informations

This data sheet complies with the provisions of the Ministry of Health decree of September 7, 2002, implementing Directive 2001/58/EC.

The information contained in this data sheet is based on the best knowledge currently available to us and provides guidance for the common industrial use of the product. However, it remains the responsibility of the user to ensure the most appropriate hygiene, safety, and protective measures are taken based on the specific use to which the product is intended.

QUANTITIES OF 3YOTS TO BE APPLIED ON LASER CUTTING TABLES

QUANTITY OF 3YOTS IN MILLILITERS	TABLE LENGTH	TABLE WIDTH	DAYS BETWEEN APPLICATIONS WITH 1 CUTTING SHIFT	DAYS BETWEEN APPLICATIONS WITH 2 CUTTING SHIFTS	DAYS BETWEEN APPLICATIONS WITH 3 CUTTING SHIFTS
320	3.000	1.500	15	10	5
450	3.000	2.000			
450	4.000	1.500			
560	4.000	2.000			
830	6.000	2.000			
1.000	8.000	2.000			
1.300	8.000	2.500			
1.380	12.000	2.000			
1.850	12.000	2.500			
2.100	12.000	3.000			

