

SAFETY DATA SHEET FOR CHEMICAL PRODUCTS (SDS)

Date: January 29, 2024

Page: 1/9

SECTION 1. Identification of the substance/preparation and company

1.1 Product Identification

Brand : Velleman
Product code : VTFL (30g Jar) / VTFL1 (10g Tube)
Product Reference : 559A,

1.2 Recommended Use : Lead-free Solder Flux

1.3 Supplier information

Applicant : Velleman Group NV
Legen Heirweg 33
9890 Gavere
Belgium
Tel: +32 (0)9 384 36 11
Email: info@velleman.eu

Manufacturer : SHENZHEN JINLIYANG TECHNOLOGY CO., LTD.
Building E, No. 54-6 Guanlan Avenue, Xinhe Community
Fucheng Street, Longhua district, Shenzhen
China
Tel: +86 (0)755 827 98 833
Email: kelvin@glf-tool.com

1.4 Emergency Phone numbers : Anti Poison centers



Belgium: +32 70 245 245
Netherlands: +31 88 755 8000
France: +33 1 45 42 59 59
Germany: +49 228 19 240
Spain: +34 91 562 04 20
Portugal: +351 800 250 250
Poland: +48 22 619 66 54 (Warsaw), +48 58 682 19 39 (Gdansk)

International emergency: 112

SAFETY DATA SHEET FOR CHEMICAL PRODUCTS (SDS)

Date: January 29, 2024

Page: 2/9

SECTION 2. Hazards identifications

2.1 Hazard Class:

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) (part 2~4), classification of risk categories.

Sensitisation, skin, categories 1

Serious eye damage/eye irritation categories 1

2.2 Pictograms:



2.3 Signal word:

Danger

2.4 Hazard description:

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

2.5 Precautionary description:

P264 Wash hands [and face] thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

2.6 Other hazard

PBT and vPvB: None

SAFETY DATA SHEET FOR CHEMICAL PRODUCTS (SDS)

Date: January 29, 2024

Page: 3/9

SECTION 3. Composition / information on ingredients

Ingredient(s) of the product: Mixture

Substance name	Conc. (%)	CAS. No
685 rosin	25	8050-09-7
Fully hydrogenated rosin	20	65997-06-0
Diethylene glycol ether	30	111-90-0
Succinic acid	2	110-15-6
Adipic acid	3	124-04-9
Rose acid	5	143-07-7
Thixotropic agent 6650	6	/
Antioxidant BUT	2	/
Surfactant	2	/
Polyisobutylene 300R	5	9003-27-4

SECTION 4. First aid measures

General advice: Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.

4.1 Following inhalation:

If feeling uncomfortable, victim should be moved into fresh air. Seek medical attention.

4.2 Following skin contact:

Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feeling uncomfortable.

4.3 Following eye contact:

In case of contact may cause irritation, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician immediately if eyes are hurt.

4.4 Following ingestion:

Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

SAFETY DATA SHEET FOR CHEMICAL PRODUCTS (SDS)

Date: January 29, 2024

Page: 4/9

SECTION 5. Firefighting measures

5.1 Hazardous Characteristics:

No hazardous characteristics.

5.2 Extinguishing Media:

Dry powder, Chemical foam, Carbon dioxide, water mist.

5.3 Firefighting procedures:

As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.

5.4 Hazardous combustion products:

None

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Wear appropriate protective measures (SEE SECTION 8).

6.2 Environmental precautions:

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

6.3 Cleaning method:

Remove by liquid absorbing material (e.g. kieselguhr) . Adhered or collected material should be promptly disposed of. Disposal of discarded waste/pollutants refers to SECTION 13.

SECTION 7. Safe handling and storage

7.1 Handling Notes:

Keep indoor ventilation or local exhaust device.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Use only outdoors or in a well-ventilated area.

7.2 Storage Notes:

Stored in cool and dry condition.

Do not store with incompatible material (see section 10.2)

SAFETY DATA SHEET FOR CHEMICAL PRODUCTS (SDS)

Date: January 29, 2024

Page: 5/9

SECTION 8. Exposure controls / personal protection

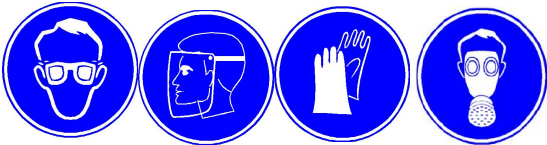
8.1 Occupational Exposure Limit:

No relevant information.

8.2 Engineering Control:

Ensure that eyewash stations and safety showers are proximal to the work-station location.

8.3 Personal Protection:

General requirement:	
Respiratory:	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
Eyes:	Wear protective goggle (Conform to EC EN 166 or US-NIOSH).
Hands:	Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.

8.4 Sanitary Measure:

Forbid smoking, eating and drinking in working places. Washing hands after handling products.

SAFETY DATA SHEET FOR CHEMICAL PRODUCTS (SDS)

Date: January 29, 2024

Page: 6/9

SECTION 9. Physical and chemical properties

Appearance and Color	Transparency liquid
Odour	Slightly pungent smell
PH value	4-5
Flammability	Non-combustible
Density(g/cm ³)	0.77-0.795
Relative steam density (air = 1)	No Data
Vapor pressure(MPa)	No Data
Octanol/water partition coefficient	No Data
Viscosity	No Data
Flash point(°C,Closed cup)	No Data
Boiling point(°C)	235-250
Melting point (°C)	130-150
Evaporation rate (kg/s)	No Data
UEL %(V/V)	No Data
LEL %(V/V)	No Data
Auto-ignition temperature(°C)	No Data
Decomposition temperature(°C)	Not easy to decompose
Solubility	Insoluble in water

SECTION 10. Stability and reactivity

10.1 Stability:

Stable under recommended storage and handling conditions (See section 7).

10.2 Material for avoiding:

Strong oxide, acid and alkali, Strong reducing agent.

10.3 Contact conditions for avoiding:

Sunlight, high temperature.

10.4 Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SAFETY DATA SHEET FOR CHEMICAL PRODUCTS (SDS)

Date: January 29, 2024

Page: 7/9

SECTION 11. Toxicological information

11.1 Acute toxicity:

Based on available data, the classification criteria are not met.

11.2 Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

11.3 Serious eye damage/irritation:

Serious eye damage/irritation, categories 1

11.4 Respiratory or skin sensitisation:

Skin sensitisation, categories 1

11.5 Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

11.6 Carcinogenicity:

Based on available data, the classification criteria are not met.

11.7 Reproductive toxicity:

Based on available data, the classification criteria are not met.

11.8 STOT-single exposure:

Based on available data, the classification criteria are not met.

11.9 STOT-repeated exposure:

Based on available data, the classification criteria are not met.

11.10 Aspiration hazard.:

Based on available data, the classification criteria are not met.

SECTION 12. Ecological information

12.1 Toxicity:

No data available.

12.2 Persistence and degradability:

No data available.

SAFETY DATA SHEET FOR CHEMICAL PRODUCTS (SDS)

Date: January 29, 2024

Page: 8/9

12.3 Bioaccumulative potential:

No data available.

12.4 Mobility in soil

No data available.

12.5 Other Dangers:

PBT and vPvB evaluation results: Not applicable

SECTION 13. Disposal considerations

13.1 Handling method for waste:

Handling waste according to the local regulations. Contact specific waste disposal company or companies recommended by local laws.

13.2 Handling method for uncleaned packaging

Processing as general waste processing after the empty container.

SECTION 14. Transport information

Packaging Label	None
UN NO	None
Technical name	None
Transport hazard class	None
Subsidiary hazard class	None
Packing group	None
Marine pollutant	No
ICAO/IATA	Can be shipped as general cargo by air in accordance International Air Transport Association (IATA) DGR 64 th .
IMDG CODE	Can be shipped as general cargo by sea in accordance with International Maritime Dangerous Goods Code IMDG CODE (41-22).
ADR	Can be shipped as general cargo by Road in accordance with European Agreement concerning the International Carriage of Dangerous (ADR-2023).

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SAFETY DATA SHEET FOR CHEMICAL PRODUCTS (SDS)

Date: January 29, 2024

Page: 9/9

RID	Can be shipped as general cargo by Rail in accordance with Regulations concerning the International Carriage of Dangerous Goods (RID-2023).
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SECTION 15. Regulatory information

15.1 Safety, health and environmental regulations / laws for pure substances or mixtures

Catalogue of hazardous chemicals (2015 Edition)

None

15.2 Safety assessment of chemical substances

Not evaluated

SECTION 16. Other information

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the result of its use, this information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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