SAFETY DATA SHEET

Vuba Catalyst

This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material, as well as describing potential risks to the consumer and the environment. This information must be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet is prepared in accordance with formatting described in the REACH Regulation (EC) No 1907/2006, and the UK REACH Regulations SI 2019/758.

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

1.1 Product identifier
Vuba Catalyst

1.2 Relevant identified uses of the substance or mixture and uses advised against
Used for polyurethane
No uses advised against. Use only as instructed.

1.3 Details of the supplier of the safety data sheet
Vuba Chemical Innovations Ltd
Fruit Market, Building 3 @ The Dock, Hull, HU1 1UU

Tel: +00 44 1482 778897
E mail: sales@vubaci.com
Web: www.vubasurfaces.co.uk

1.4 Emergency telephone number

In case of emergency Tel. +00 44 1482 778897 (09:00-17:00 Mon-Fri)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture
Classification according to the CLP Regulation (EC) No 1272/2008 and the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain

Flam. Liq. 3 H226 Flammable liquid and vapour
STOT SE 2 H371 May cause damage to the immune system. Route of exposure: Oral.
STOT SE 3 H336 May cause drowsiness or dizziness.
STOT RE 2 H372 Causes damage to the central nervous system through prolonged or repeated exposure.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking

2.2 Label elements



Danger
H226 Flammable liquid and vapour
H371 May cause damage to the immune system if swallowed.
H336 May cause drowsiness or dizziness.
H372 Causes damage to the central nervous system through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe mist/vapours/spray
P280 Wear protective gloves/protective clothing/eye protection/face protection
P301+P310 IF SWALLOWED: Immediately call a doctor.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314 Get medical advice/attention if you feel unwell
P403+P235 Store in a well-ventilated place. Keep cool.

EUH066 Repeated exposure may cause skin dryness or cracking

2.3 Other hazards
Read instructions carefully before use
Contains no components known to be PBT or vPvB or to have endocrine disrupting properties.

SECTION 3: Composition

3.1 Substances
Not applicable – product is a mixture

3.2 Mixtures

Name	EC/CAS/Registration No	Concentration	Classification
White spirit Hydrocarbons, C9-C12, n-alkanes,isoalkanes,cyclics, aromatics 2-25%	919-446-0 64742-82-1 01-21194584049-33	85-95%	Flam Liq. 3 H226 Asp. Tox. 4 H304 STOT RE 1 H372 (CNS) STOT SE 3 H336 Aquatic Chronic 2 H411
bis(neodecanoyloxy)dioctyl-stannane	269-595-4 68299-15-0 UK-01-4219538876-6-0001	5-15%	STOT SE 2 H371 (Immune system)(oral)

SECTION 4: First Aid Measures

4.1 Description of first aid measures
EYE CONTACT: Wash thoroughly with water and obtain medical attention if continued signs of discomfort.
INHALATION: Remove from exposure. If breathing becomes difficult call a doctor.
SKIN CONTACT: Wash off with soap and water. Seek medical attention if irritation occurs.
INGESTION: If swallowed, rinse mouth with water and obtain medical attention if signs of discomfort.

4.2 Most important symptoms and effects, both acute and delayed
Ingestion may cause mild abdominal discomfort, nausea, vomiting.
Inhalation may cause drowsiness, dizziness, loss of consciousness.
Prolonged skin contact may cause dryness, cracking of the skin.
Long term exposure may cause CNS effects, effects on the immune system.

4.3 Indication of any immediate medical attention and special treatments needed
Symptomatic treatment as required.

SECTION 5: Firefighting Measures

5.1 Extinguishing media
Suitable extinguishing media: Water spray, foam, powders, carbon dioxide
Unsuitable extinguishing media: Water jet

5.2 Special hazards arising from the substance or mixture
Containers involved in a fire may become pressurised and burst.

Burning releases carbon monoxide, carbon dioxide, tin oxide. In the event of fire and/or explosion do not breathe fumes.
Prevent fire-fighting water from entering drains and watercourses.

5.3 Advice for fire fighters
Fire fighters should wear protective clothing and positive pressure self-contained breathing apparatus as appropriate.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Remove all ignition sources. Evacuate unnecessary personnel. Ensure adequate ventilation. Use eye protection (goggles recommended) and suitable gloves. Respiratory protection may be needed if there are high vapour concentrations.

6.2 Environmental precautions
Prevent entry into sewers and watercourses.

6.3 Methods and materials for containment and clearing up
Absorb liquid onto sand, earth or other suitable absorbent material. Collect into a suitable labelled container for disposal. Wash spill area thoroughly with water and detergent to remove residues. Prevent washings from entering water courses.

6.4 References to other sections
See section 8 and 13 for further advice.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling
Keep away from sources of ignition. Avoid contact with eyes and skin.
Do not breather vapours/mists. Use only in well ventilated areas. Ensure good ventilation if using indoors, especially at floor level (fumes are heavier than air).
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities
Store in its original labelled container in a cool, dry, well ventilated area. Not to be stored next to foodstuffs and water supplies. Keep out of reach of children and animals.

Unsuitable material for storage containers: aluminium.

7.3 Specific end uses(s)
Use only as directed in accordance with the label.

Refer to HSE publications HSG51 - The Storage of Flammable Liquids in Containers; and HSG140 - The Safe Use and Handling of Flammable Liquids for more information if needed.

SECTION 8. Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:
Hydrocarbons, C9-C12, n-alkanes,isoalkanes,cyclics, aromatics 2-25%, REACH Reg No. 01-2119458049-33
600 mg WEL Long-term recommended limit

DNELS

Substance Name	Worker

	Long term dermal effects	Long term inhalation effects	Short term dermal effects	Short term inhalation effects
bis(neodecanoyloxy)dioctylstannane	0.0175 mg/kg bw/d	0.0617 mg/m³ Systemic	—	—

8.2 Exposure controls

Engineering controls: None usually required for handling outside. Ensure good level of ventilation with at least 3 - 5 air exchanges per hour if handled indoors.

Respiratory protection: None usually required unless ventilation rate is not possible to achieve.

Hand Protection: In case of contact, wear gloves suitable for hydrocarbon solvents. Glove manufacturers recommendations should always be consulted.

Eye protection: Tightly fitting goggles recommended.

Skin protection: Coveralls.

Environmental Exposure Controls: Prevent entry into drains and watercourses.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a) Physical state:	Liquid
b) Colour:	Off-white
c) Odour:	Characteristic
d) Melting point:	No data available
e) Boiling point:	> 150°C
f) Flammability:	Not applicable, product is a liquid
g) Upper/lower flammability limits:	0.6% - 7.0% (White spirit)
h) Flashpoint:	38°C (White spirit)
i) Autoignition temperature:	No data available
j) Decomposition temperature:	No data available
k) pH:	Not applicable
l) Viscosity:	No data available
m) Solubility:	No data available
n) Partition coefficient (log Kow):	No data available
o) Vapour pressure:	0.4 hPa at 20°C (White spirit)
p) Density and/or relative density:	No data available
q) Relative vapour density:	No data available
r) Particle characteristics	Not applicable, product is a liquid

9.2 Other information
None

SECTION 10: Stability and Reactivity

10.1 Reactivity
No reactive hazards known.

10.2 Chemical stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
None expected.

10.4 Conditions to avoid
Avoid exposure to high and freezing temperatures.

10.5 Incompatible materials
Avoid contact with strong oxidisers, acids and bases.

10.6 Hazardous decomposition products
None under normal conditions of use.

SECTION 11: Toxicological Information

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

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

(a) acute toxicity	Based on available data, the classification criteria are not met.
(b) skin corrosion/irritation	Based on available data, the classification criteria are not met. Prolonged exposure to the product may cause dryness and defatting of the skin, leading to redness and cracked skin.
(c) serious eye damage/irritation	Based on available data, the classification criteria are not met.
(d) respiratory/skin sensitisation	Based on available data, the classification criteria are not met.
(e) germ cell mutagenicity	Based on available data, the classification criteria are not met.
(f) carcinogenicity	Based on available data, the classification criteria are not met.
(g) reproductive toxicity	Based on available data, the classification criteria are not met.
(h) STOT-single exposure	Based on available data, the mixture is classified as STOT SE 2 due to the presence of bis(neodecanoyloxy)dioctylstannane which may cause effects on the immune system if ingested. Based on available data, the mixture is classified as STOT SE 3 (narcotic effects) due to the presence of white spirit
(i) STOT-repeated exposure	Based on available data, the mixture is classified as STOT SE 2 due to the presence of, long term exposure to which is associated with adverse effects on the central nervous system.
(j) aspiration hazard	Based on available data, the mixture is classified for aspiration toxicity due to the presence of white spirit.

11.2 Information on other hazards
No additional information.

SECTION 12: Ecological Information

12.1 Toxicity
Contains white spirit which may cause toxic effects to aquatic organisms.

bis(neodecanoyloxy)dioctylstannane
NOEC/30d 1.08 mg/l (fish)
EC50/72 h >100 mg/l (Pseudokirchneriella subcapitata) (Alga, Growth Inhibition Test)
EC50/48 h 24.12 mg/l (Daphnia magna (water flea)) (Daphnia sp. Acute Immobilisation Test)
LC50/96 h >100-<300 mg/l (Oncorhynchus mykiss (rainbow trout)) (Fish, Acute Toxicity Test)

White spirit
LC/IC/EC 50 ≤ 10mg/l (Fish)
LC/IC/EC 50 ≤ 100mg/l (Invertebrates)

12.2 Persistence and degradability
Although key components are not considered rapidly biodegradable, no components are persistent in the environment.

12.3 Bioaccumulative potential
None of the components are considered to be bioaccumulative.

12.4 Mobility in soil
Expected to be of low mobility.

12.5 Results of PBT and vPvB assessment
None of the components are known to be PBT or vPvB.

12.6 Endocrine disrupting properties
None of the components are known to have endocrine disrupting properties.

12.7 Other adverse effects
None known.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods
Recover and recycle unused product if possible. If recovery and recycling are not possible incinerate or dispose of in accordance with local and national regulations.

SECTION 14: Transport Information

Not considered to be dangerous goods for transport.

	ADR	IMDG	ICAO
14.1 UN Number	1300	1300	1300
14.2 UN Proper shipping name	TURPENTINE SUBSTITUTE	TURPENTINE SUBSTITUTE	TURPENTINE SUBSTITUTE
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	III	III	III
14.5 Environmental hazards	Yes	Yes Marine Pollutant P	Yes
14.6 Special precautions for user	Tunnel restriction code (D/E)	EmS F-E, S-E	
14.7 Maritime transport in bulk according to IMO instruments	Not Applicable	Not Applicable	Not Applicable

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
All components are listed as existing substances in Europe
All components are considered compliant with REACH

15.2 Chemical Safety Assessment
A Chemical Safety Assessment has not been carried out for this product.

SECTION 16: Other Information

Revision information:
Revised SDS

List of Abbreviations used in this SDS:
CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging Regulation (EC) no 1272/2008
EC European Community/Commission
PBT Persistent, Bioaccumulative and Toxic
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) no 1907/2006

vPvB very Persistent, very Bioaccumulative

References:
Source: European Chemicals Agency, http://echa.europa.eu/

Method used for classification of mixtures:
Ingredient based approaches

H Statements used in Section 3
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H336 May cause drowsiness or dizziness.
H371 May cause damage to organs
H372 Causes damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Training requirements for workers
No special training requirements