Material Safety Data Sheet

TBTU FOR SYNTHESIS (RXSOL-60-6605-651)

1. Product and Company Identifaction

Product Name	RXSOL-60-6605-651
Product Type	TBTU FOR SYNTHESIS
Revised date	

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Stock Point : Mumbai, Kandla, Chennai, Visakhapatnam, Kolkata, Fujairah, Muscat Barka

Phone	+91 22 27815541 / 42
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Email	mail@rxmarine.com

2. Composition / informationon ingredients

2.1. Substances: TBTU For synthesis
CAS-No.: 125700-67-6

Substance name	Contents	CAS No
TBTU	100	125700-67-6

Substance.
Contains no other components or impurities which will influence the classification of the product.

3. Hazards Identification

3.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Flammable solids, H228
Category 1
Skin corrosion/irritation, H315
Category 2
Serious eye damage/eye H319
irritation, Category 2
Specific target organ H335
toxicity — Single
exposure, Category 3,
Respiratory tract irritation
Full text of H statements : see section 16
Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]
Xi; R36/37/38
Full text of R-phrases: see section 16
Adverse physicochemical, human health and environmental effects
No additional information available
3.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to displayExtra classification(s) to display
Symbol(s): Highly flammable
Xi : Irritation.

R Phrase(s):R2: Risk of explosion by stock, friction, fire or other sources of ignition.
R36/37/38 Irritating to eyes, respiratory system and skin.
S Phrase(s):S26: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advise.
S35: This material and its container must be disposed off in a safe way.
Hazard pictograms

Signal word: Danger
Hazard statements: H228 - Flammable solid.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
Precautionary statements: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition
sources. No smoking.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
3.3. Other hazards
No additional information available

4. First Aid Measures

4.1. Description of first aid measures
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen orartificial respiration if necessary. If you feel unwell, seek medical advice.
First-aid measures after skin contact : Gently wash with plenty of soap and water. If skin irritation occurs: Get medicaladvice/attention.
First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion : Rinse mouth out with water. If you feel unwell, seek medical advice.
4.2. Most important symptoms and effects, both acute and delayed
Symptoms/effects after inhalation : May cause respiratory irritation.
Symptoms/effects after skin contact : Causes skin irritation.
Symptoms/effects after eye contact : Causes serious eye irritation.
4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

5. Fire-fighting Measures

5.1. Extinguishing media
Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media : Do not use extinguishing media containing water.
5.2. Special hazards arising from the substance or mixture
Fire hazard : Flammable solid.
Explosion hazard : Heating may cause a fire or explosion.
5.3. Advice for firefighters
Protection during firefighting : Do not attempt to take action without suitable protective equipment.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Emergency procedures : Avoid contact with skin and eyes.
6.1.2. For emergency responders
Protective equipment : Use personal protective equipment as required. Breathing apparatus. Emergency procedures : Stop release.
6.2. Environmental precautions
Avoid release to the environment.
6.3. Methods and material for containment and cleaning up
Methods for cleaning up : Clean up immediately by sweeping or vacuum. Clean contaminated surfaces with an excess of water.
6.4. Reference to other sections
No additional information available

7. Handling and Storage

7.1. Precautions for safe handling
Precautions for safe handling : Avoid contact with skin and eyes.
Hygiene measures : Wash hands and other exposed areas with mild soap and water before

eating,drinking or smoking and when leaving work.
7.2. Conditions for safe storage, including any incompatibilities
Storage conditions : Store in original container. Store in a well-ventilated place. Keep cool. Keep in fireproof place. Heat sources.
7.3. Specific end use(s)
No additional information available

8. Exposure controls and personal protection

8.1. Control parameters
No additional information available
8.2. Exposure controls Hand protection : Protective gloves
Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : Wear respiratory protection.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting point : 205 °C
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Solubility : No data available
Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available
9.2. Other information
No additional information available

10. Stability and reactivity

10.1. Reactivity
No additional information available
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No additional information available
10.4. Conditions to avoid
Air contact. Direct sunlight. Moisture. Heat. Overheating.
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
No additional information available

11. Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Not classified
Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

12. Ecological information

12.1. Toxicity
No additional information available
12.2. Persistence and degradability
No additional information available
12.3. Bioaccumulative potential
No additional information available
12.4. Mobility in soil
No additional information available
12.5. Results of PBT and vPvB assessment
No additional information available
12.6. Other adverse effects
No additional information available

13. Disposal considerations

13.1. Waste treatment methods
No additional information available

14. Transport information

In accordance with ADR / RID / IMDG / IATA / ADN
14.1. UN number
UN-No. (ADR) : 1325
UN-No. (IMDG) : 1325
UN-No. (IATA) : 1325
UN-No. (ADN) : 1325
UN-No. (RID) : 1325
14.2. UN proper shipping name
Proper Shipping Name (ADR) : FLAMMABLE SOLID, ORGANIC, N.O.S.
Proper Shipping Name (IMDG) : FLAMMABLE SOLID, ORGANIC, N.O.S.
Proper Shipping Name (IATA) : Flammable solid, organic, n.o.s.
Proper Shipping Name (ADN) : FLAMMABLE SOLID, ORGANIC, N.O.S.
Proper Shipping Name (RID) : FLAMMABLE SOLID, ORGANIC, N.O.S.
Transport document description (ADR) : UN 1325 FLAMMABLE SOLID, ORGANIC, N.O.S., 4.1, II, (E)
Transport document description (IMDG) : UN 1325 FLAMMABLE SOLID, ORGANIC, N.O.S., 4.1, II
Transport document description (IATA) : UN 1325 Flammable solid, organic, n.o.s., 4.1, II
Transport document description (ADN) : UN 1325 FLAMMABLE SOLID, ORGANIC, N.O.S., 4.1, II
Transport document description (RID) : UN 1325 FLAMMABLE SOLID, ORGANIC, N.O.S., 4.1, II
14.3. Transport hazard class(es)
ADR: Transport hazard class(es) (ADR) : 4.1
Danger labels (ADR) : 4.1
IMDG : Transport hazard class(es) (IMDG) : 4.1
Danger labels (IMDG) : 4.1
IATA : Transport hazard class(es) (IATA) : 4.1
Hazard labels (IATA) : 4.1
AND : Transport hazard class(es) (ADN) : 4.1
Danger labels (ADN) : 4.1
RID : Transport hazard class(es) (RID) : 4.1
Danger labels (RID) : 4.1
14.4. Packing group
Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II
14.5. Environmental hazards
Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available
14.6. Special precautions for user

- Overland transport Classification code (ADR) : F1
Special provisions (ADR) : 274
Limited quantities (ADR) : 1kg
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P002, IBC08
Special packing provisions (ADR) : B4
Mixed packing provisions (ADR) : MP10
Portable tank and bulk container instructions (ADR): T3
Portable tank and bulk container special provisions (ADR): TP33
Tank code (ADR) : SGAN
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Special provisions for carriage - Packages
(ADR): V11
Hazard identification number (Kemler No.) : 40
Orange plates :
Tunnel restriction code (ADR) : E EAC
code : 1Z
- Transport by sea
Special provisions (IMDG) : 274, 915
Limited quantities (IMDG) : 1 kg
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P002
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B21, B4
Tank instructions (IMDG) : T3
Tank special provisions (IMDG) : TP33
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-G
Stowage category (IMDG) : B
- Air transport
PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y441
PCA limited quantity max net quantity (IATA) : 5kg
PCA packing instructions (IATA) : 445
PCA max net quantity (IATA) : 15kg
CAO packing instructions (IATA) : 448
CAO max net quantity (IATA) : 50kg
Special provisions (IATA) : A3, A803
ERG code (IATA) : 3L
- Inland waterway transport
Classification code (ADN) : F1
Special provisions (ADN) : 274
Limited quantities (ADN) : 1 kg
Excepted quantities (ADN) : E2
Equipment required (ADN) : PP
Number of blue cones/lights (ADN) : 1
- Rail transport
Classification code (RID) : F1
Special provisions (RID) : 274
Excepted quantities (RID) : E2
Packing instructions (RID) : P002, IBC08
Special packing provisions (RID) : B4
Mixed packing provisions (RID) : MP10
Portable tank and bulk container instructions (RID): T3
Portable tank and bulk container special provisions (RID): TP33
Tank codes for RID tanks (RID) : SGAN
Transport category (RID) : 2
Special provisions for carriage – Packages
(RID) : W1
Colis express (express parcels) (RID) : CE10
identification number (RID) : 40
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations
No REACH Annex XVII restrictions
TBTU For synthesis is not on the REACH Candidate List
TBTU For synthesis is not on the REACH Annex XIV List
15.1.2. National regulations

Germany
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Netherlands
SZW-lijst van kankerverwekkende stoffen : The substance is not listed
SZW-lijst van mutagene stoffen : The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling: The substance is not listed
Denmark
Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
15.2. Chemical safety assessment
No additional information available

16. Other information

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.
vPvB: very persistent and very bioaccumulative
Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
Further information : None.
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