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**Complying with 1907/2006/EEC Regulation of 18 December 2006 ("REACH Regulation")****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Product name: Flat

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

Common uses: Adjuvant / Surfactant.

**1.3 Details of the supplier of the safety data sheet**

CTS Ltd. - AGRICA  
4 Haharash Street,  
Hod Hasharon 45240, Israel  
P.O. Box 10 Tel-Aviv, Israel  
Phone: +972-9-7626257  
Fax: +972-9-7626327

E-mail address of person responsible for this SDS: [erezbn@cts.co.il](mailto:erezbn@cts.co.il)**1.4 Emergency telephone number**

Emergency telephone number (with hours of operation): +972-9-7626333

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

Classification in accordance with Regulation (EC) No. 1272/2008 (CLP):

Flam. Liq. 3 H226  
Acute Tox. 4 H302, H332  
Eye Dam. 1 H318

See section 16 for the full text of the H-statements declared above.

**2.2 Label elements**

Labelling in accordance with Regulation 1272/2008 (CLP)

Hazard pictogram(s):



Signal word: Danger

Hazard statement(s):

H226: Flammable liquid and vapour.  
H302: Harmful if swallowed.  
H332: Harmful if inhaled.  
H318: Causes serious eye damage.

Precautionary Statement(s):

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER/ doctor.

P301 + P312: IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.

P330: Rinse mouth.

**2.3 Other hazard**

Not available

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**SECTION 3: Composition/information on ingredients**

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**3.2 Mixtures:**

Substance name	Identifiers	%	CLP Classification
Di Alcohol C11, ethoxylated	CAS number: 127036-24-2 EC number: -	20-40	Acute Tox. 4 H302 Eye Dam. 1 H318
2-Methylpropan-1-ol	CAS number: 78-83-1 EC number: 201-148-0	10-15	Flam. Liq. 3 H226 Skin Irrit. 2 H315 Eye Dam. 1 H318 STOT SE 3 H335, H336

See section 16 for the full text of the H-statements declared above.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in section 8.**

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**SECTION 4: First aid measures**

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**4.1 Description of first aid measures**

**Eyes contact:** In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. Get medical attention.

**Skin contact:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Get medical attention.

**Inhalation:** Remove the victim from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

**Ingestion:** **Do not induce vomiting.** If victim is conscious, wash mouth thoroughly with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

**4.2 Most important symptoms and effects, both acute and delayed**

See section 2.2 (Label elements) and/or section 11 (Toxicological information) for the most important known symptoms and effects.

**4.3 Indication of any immediate medical attention and special treatment needed**

Not available

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**SECTION 5: Fire-fighting measures**

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**5.1 Extinguishing media**

Suitable: Foam, carbon dioxide, dry powder or water spray.

Not suitable: N/A

**5.2 Special hazards arising from the substance or mixture**

Flammable liquid and vapour. Under fire conditions may emit toxic and irritating fumes.

**5.3 Advice for firefighters**

**Special protective equipment for fire fighters:** Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode.

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**SECTION 6: Accidental release measures**

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**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Ventilate area of spill. Keep away from sources of ignition.

**6.2 Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas.

**6.3 Methods and materials for containment and cleaning up**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

**6.4 Reference to other sections**

See Section 1 for emergency contact information.

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**SECTION 7: Handling and storage**

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**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapors, mist or gas. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice. Keep away from sources of ignition - No smoking.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information measures.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage:** Keep container tightly closed in a dry, cool and well-ventilated place. Keep away from oxidizing agents.

**7.3 Specific end use(s):** N/A

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**SECTION 8: Exposure control/personal protection**

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**8.1 Control parameters**

Occupational exposure limit values: N/A

**8.2 Exposure controls**Engineering measures

Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Person Protective measures

Respiratory protection: Suitable respirator. Be sure to use an approved/certified equipment or equivalent equipment. Wear appropriate respirator when ventilation is inadequate.

Hand protection: Wear protective gloves to prevent skin exposure.

Eye protection: Wear protective safety glasses.

Skin protection: Wear appropriate long-sleeved clothing to minimize skin contact.

Environmental exposure controls: Not available

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## **SECTION 9: Physical and chemical properties**

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### **9.1 Information on basic physical and chemical properties**

Appearance: clear transparent liquid

Odour: N/A

Odour threshold: N/A

pH: 7.2-7.7

Melting point/Freezing point: N/A

Initial boiling point/boiling range: N/A

Flash point: 47°C

Evaporation rate: N/A

Flammability: N/A

Upper/lower flammability or explosive limits: N/A

Vapor pressure: N/A

Vapor density: N/A

Relative density: 1.03 g/ml

Solubility(ies): Soluble in water

Partition coefficient Octanol/Water: N/A

Auto-ignition temperature: N/A

Decomposition temperature: N/A

Viscosity: N/A

Explosive properties: N/A

Oxidizing properties: N/A

### **9.2 Other information**

N/A

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## **SECTION 10: Stability and reactivity**

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### **10.1 Reactivity**

Not available

### **10.2 Chemical stability**

The product is stable under normal handling and storage conditions described in Section 7

### **10.3 Possibility of hazardous reactions**

Hazardous reactions are not expected, under normal conditions of storage and use.

### **10.4 Conditions to avoid**

Heat, flames and sparks.

### **10.5 Incompatible materials**

Oxidizing agents.

### **10.6 Hazardous decomposition products**

Other decomposition products: not available

In the event of fire: see section 5

**SECTION 11: Toxicological information**
**11.1 Information on toxicological effects**

Acute toxicity:

Product/substance name	Test	Species	Dose
Flat	LD50, Oral	Rat	5000 mg/kg
	LC50, Inhalation	Rat	>4.06 mg/L/4H
	LD50, Dermal	Rat	>2000 mg/kg
2-Methylpropan-1-ol	LD50, Oral	Rat	>2830 mg/kg (male)
	LD50, Oral	Rat	3350 mg/kg (female)
	LD50, Administration onto the skin	Rabbit	2450 mg/kg (female)
	LD50, Administration onto the skin	Rabbit	>2000 mg/kg (male)
	LC50, Inhalation	Rat	>24.6 mg/l/4H

Skin corrosion/irritation: Not irritating to skin.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitization: Not sensitizing to skin.

Germ cell mutagenicity: Not available

Carcinogenicity: Not available

Reproductive toxicity: Not available

Specific target organ toxicity (single exposure): Not available

Specific target organ toxicity (repeated exposure): Not available

Aspiration hazard: Not available

**SECTION 12: Ecological information**
**12.1 Toxicity**

Not available

**12.2 Persistence and Degradability**

Not available

**12.3 Bioaccumulative potential**

Not available

**12.4 Mobility in soil**

Not available

**12.5 Results of PBT and vPvB assessment**

Not available

**12.6 Other adverse effects**

Toxic to aquatic life with long lasting effects.

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**SECTION 13: Disposal considerations**

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**13.1 Waste treatment methods****Product**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Packing**

Empty containers should be taken for local recycling, recovery or waste disposal.

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**SECTION 14: Transport information**

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**14.1 Un number**

ADR/RID: 1993

IMDG: 1993

IATA: 1993

**14.2 Proper shipping name**

ADR/RID: FLAMMABLE LIQUID, N.O.S. (2-Methylpropan-1-ol)

IMDG: FLAMMABLE LIQUID, N.O.S. (2-Methylpropan-1-ol)

IATA: Flammable liquid, n.o.s. (2-Methylpropan-1-ol)

**14.3 Transport hazard class(es)**

ADR/RID: 3

IMDG: 3

IATA: 3

**14.4 Packing group**

ADR/RID: III

IMDG: III

IATA: III

**14.5 Environmental hazard**

Marine Pollutant: N/A

**14.6 Special precautions for user**

Not available

**14.7 Transport to bulk according to Annex II of MARPOL 79/78 and the IBC Code**

Not available

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**SECTION 15: Regulatory information**

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This SDS complies with the following requirements of:  
EU Regulation (EC) No.1907/2006 (REACH) including amendments  
Regulation (EC) No.1272/2008 (CLP)

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

Not available

**15.2 Chemical safety assessment**

Not available

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**SECTION 16: Other information**

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**Full text of Hazards Statements referred to in sections 2 and 3:**

Flam. Liq. - Flammable liquid

Acute Tox. - Acute toxicity

Eye Dam. - Serious eye damage

Skin Irrit. - Skin irritation

STOT SE - Specific target organ toxicity — single exposure  
H226: Flammable liquid and vapour.  
H302: Harmful if swallowed.  
H318: Causes serious eye damage.  
H315: Causes skin irritation.  
H332: Harmful if inhaled.  
H335: May cause respiratory irritation.  
H336: May cause drowsiness or dizziness.

Training advice: Before using/handling the product one must read carefully present SDS.

Key Legend Information:

CAS - Chemical Abstract Service  
ACGIH - American Conference of Governmental Industrial Hygienists  
OSHA - Occupational Safety and Health Administration  
NTP - National Toxicology program  
IARC - International Agency for Research on Cancer  
N/A - Not available  
H - statements- Hazard statements  
TLV - Threshold Limit Value  
TWA - Time-weighted average  
STEL - Short-Term Exposure Limit  
CSA - Chemical safety assessment

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