

# Safety data sheet as per Commission Regulation (EU) 2015/830

## Product: Ester Alcohol



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

#### 1.1 Product identifier

Trade name	Ester Alcohol/ CS-12
Chemical Name	2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate
CAS Number	25265-77-4
EC Number	246-771-9

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

Relevant identified uses	It is used as a coalescing aid in latex paints and as a chemical intermediate for plasticizers It is also used to make dyestuffs, adhesives, building material agents, detergents, cleaning agents, fertilizers, surface treatment agents or as a solvent
Uses identified against	Not for use other than those specified

#### 1.3 Details of the supplier of the safety data sheet:

Manufacturer	Prasol Chemicals Pvt. Ltd., Prasol House, Plot No.A-17/2/3, T.T.C. Indl. Area, Khairne M.I.D.C., Navi Mumbai - 400 710. Maharashtra, India.
Telephone	+91-22-27782555
Telefax	+91-22-27782430
e-mail address	sales@prasolchem.com; inquiry@prasolchem.com

#### 1.4 Emergency telephone number

Telephone	+91-22- 27782555
Language	English

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP) Not classified

Information concerning particular hazards for human and environment: No further information

#### 2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 (CLP) No labeling requirement

Hazard pictograms	None
Signal word	None
Hazard statements	None

#### Precautionary statements

##### General

Prevention	P280	Use protective gloves and eye protection.
Response	P304+P340 P305+P351+P338	IF INHALED: Remove person to fresh air and keep comfortable for breathing IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Storage	P370+P378	In case of fire: Use CO <sub>2</sub> , dry powder, foam or water spray to extinguish
Disposal	P403+P233 P501	Store in a well-ventilated place. Keep container tightly closed Dispose of contents and container in accordance with national regulations

#### 2.3 Other hazards

Not a PBT, vPVB substance according to the criteria of REACH regulation

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Ingredient	CAS No.	EC No.	Concentration (%)
2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	25265-77-4	246-771-9	98 min

#### Additional information:

Molecular Formula	C <sub>12</sub> H <sub>24</sub> O <sub>3</sub>
Molecular Weight	216.32

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General information	Take off all contaminated clothing immediately.
After inhalation	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If



	unconscious, evaluate the need for artificial respiration. Get immediate medical attention
After skin contact	Wash off with plenty of water immediately, seek medical advice if necessary.
After eye contact	Rinse with plenty of water immediately and seek medical advice.
After swallowing	Do not induce vomiting and seek medical advice immediately.
4.2 Most important symptoms and effects, both acute and delayed	Eye and skin irritation
4.3 Indication of any immediate medical attention and special treatment needed	Treat symptomatically

### SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	CO <sub>2</sub> , dry powder, foam or water spray
Unsuitable extinguishing media	water jet
5.2 Special hazards arising from the substance or mixture	May form toxic carbon oxides if case of fire.
5.3 Advice for firefighters	Use fine water spray to cool endangered containers. Move undamaged containers from immediate hazard area. Do not allow fire water to penetrate into surface or ground water. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Remove persons not involved upwind. Wear a self-contained breathing apparatus and chemical protective clothing. Solvent-resistant protective clothing recommended.
6.2 Environmental precautions	Plug leak if safely possible. Do not allow to enter drains, surface waters, basements or pits.
6.3 Methods and material for containment and cleaning up	In case of spills of large quantities: Dam spills and pump to remove. Absorb leftover product with non-flammable liquid-binding material (e.g. earth, sand, vermiculite or ground sand stone) and place in closed containers for disposal.
6.4 Reference to other sections	Section 8 for information on personal protection equipment. Section 13 for disposal information

### SECTION 7: Handling and storage

7.1 Precautions for safe handling	Provide adequate ventilation, and local exhaust as needed. Provide room air exhaust at ground level. Do not breathe vapours. Use only explosion-protected equipment/instruments.
7.2 Conditions for safe storage, including any incompatibilities	
Advice on protection against fire and explosion	Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge.
Storage	Keep container dry. Keep container tightly closed in a cool, well-ventilated place. Protect from direct sunlight. Steel, stainless steel, and aluminium are stable container materials.
Advice on common storage	Observe prohibition against storing together!
Storage class	Combustible liquid
Storage stability	Stable under recommended storage conditions
7.3 Specific end use(s)	Refer Section 1

### SECTION 8: Exposure controls/personal protection

8.1 Control parameters	TLV not established; TWA 5 mg/m <sup>3</sup>
8.2 Exposure controls	
Appropriate engineering controls	Provide good ventilation and/or an exhaust system in the work area.
Personal protective equipment	

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<b>Eye/ face protection</b>	closed goggles, face shield
<b>Skin protection</b>	
<b>Hand protection</b>	Butyl-rubber                      0.5 mm                      > 480 min
<b>Body protection</b>	Use solvent-resistant protective clothing. Flame-retardant antistatic protective clothing; safety shoes
<b>Respiratory protection</b>	Respiratory equipment with suitable filter or a self-contained respiratory apparatus.
<b>Thermal hazards</b>	Combustible liquid; do not expose to heat
<b>Industrial hygiene</b>	Do not inhale vapours / aerosols. Avoid contact with skin and eyes. Remove immediately all contaminated clothing. Use disposable clothing if appropriate. Smoking, eating and drinking should be prohibited in the application area.

### SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Colourless liquid
<b>Odour</b>	fruity smell of ester
<b>Odour threshold</b>	65ppb
<b>pH</b>	no data
<b>Melting point</b>	-50°C
<b>Boiling point</b>	255°C
<b>Flash point</b>	121°C (Closed cup)
<b>Evaporation rate</b>	0.002 (nBuAc=1)
<b>Flammability (solid, gas)</b>	not applicable
<b>Flammability limits</b>	no data
<b>Vapour pressure</b>	0.01 mmHg at 20°C
<b>Vapour density</b>	7.5 (air =1 at boiling point)
<b>Relative density</b>	0.95 at 20°C
<b>Solubility in water</b>	0.1% at 20°C
<b>Partition coefficient</b>	3.2 log Kow (n-octanol/water) at 25C
<b>Ignition temperature</b>	393°C
<b>Decomposition temperature</b>	no data available
<b>Viscosity at 20°C</b>	13.5 mPa.s
<b>Explosive properties</b>	No explosive properties.
<b>Oxidizing properties</b>	No oxidizing properties

#### 9.2 Other information

<b>Heat of combustion</b>	-1607.7 cal/gmol
<b>Heat of vaporization</b>	15196 cal/gmol

### SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	No special reactivity
<b>10.2 Chemical stability</b>	Under storage at normal ambient temperatures (-40°C to +40°C), the product is stable.
<b>10.3 Possibility of hazardous reactions</b>	No known hazardous reactions if used as directed
<b>10.4 Conditions to avoid</b>	Avoid exposure to elevated temperatures.
<b>10.5 Incompatible materials</b>	Avoid contact with strong oxidizing agents, alkalis and amines
<b>10.6 Hazardous decomposition products</b>	Thermal decomposition products- carbon oxides

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

LD50	oral	rat	6500 mg/kg bw	not classified
LC50	inhalation	8h, rat	-	no mortality, hence no data on LC50
LD50	Dermal	rabbit	>16 mg/kg bw	

##### Skin irritation

Mild skin irritation 24 h (rabbit) Category 3

##### Serious eye irritation

not irritating - 24 h (rabbit)

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<b>Respiratory or skin sensitization</b>	No sensitizing effects known
<b>Germ cell mutagenicity</b>	non mutagenic (Ames test)
<b>Carcinogenicity</b>	no indications for a carcinogenic potential
<b>Reproductive toxicity</b>	no adverse effect on reproduction (rat)
<b>STOT-single exposure</b>	irritating to skin; Category 3
<b>STOT-repeated exposure</b>	NOAEL 1000mg/Kg bw/day; rat (oral); kidney
<b>Aspiration hazard</b>	no data available

**SECTION 12: Ecological information**

<b>12.1 Toxicity</b>	
<b>Aquatic toxicity</b>	
Toxicity to fish	LC50 96h 33mg/L <i>Pimephales promelas</i>
Toxicity to aquatic invertebrates	EC50 48h 147.8mg/L <i>Daphnia magna</i>
Toxicity to aquatic algae and cyanobacteria	EC50 72h 18.4 mg/L <i>Pseudokirchneriella subcapitata</i>
Toxicity to microorganisms	no data available
<b>12.2 Persistence and degradability</b>	
<b>Biodegradation</b>	readily biodegradable (98% in 28days)
<b>12.3 Bioaccumulative potential</b>	Bioconcentration factor 1.95, 3d, whole body w.w. very low potential for bioaccumulation
<b>12.4 Mobility in soil</b>	log Koc = 2.218; very low potential for geoaccumulation (Blume scale)
<b>12.5 Results of PBT and vPvB assessment</b>	Not a PBT, vPvB substance according to the REACH regulation
<b>12.6 Other adverse effects</b>	No further information available

**SECTION 13: Disposal considerations**

<b>13.1 Waste treatment methods</b>	Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Do not dispose in sewage.
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**SECTION 14: Transport information**

	<b>ADR/RID</b>	<b>IMDG</b>	<b>ICAO/IATA</b>
<b>14.1 UN Number</b>	-	-	-
<b>14.2 UN proper shipping name</b>	Not a Hazardous substance		
<b>14.3 Transport hazard class</b>	-	-	-
<b>14.4 Packaging group</b>	-	-	-
<b>14.5 Environmental hazards</b>	not environmentally hazardous, not a marine pollutant		
<b>14.6 Special precautions for the user</b>	Combustible liquid		
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	See regulatory information for transport approval		

**SECTION 15: Regulatory information**

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
<b>Major accident hazard</b>	<b>Seveso III</b> not applicable
<b>International Chemical Inventory Status</b>	
<b>USA (TSCA)</b>	listed
<b>Canada (DSL)</b>	listed
<b>Australia (AICS)</b>	listed
<b>Japan (MITI)</b>	listed
<b>Korea (KECL)</b>	listed
<b>Philippines (PICCS)</b>	listed
<b>China</b>	listed
<b>New Zealand</b>	listed
<b>Taiwan</b>	listed
<b>15.2 Chemical safety assessment</b>	A Chemical Safety Assessment will be carried out at the time of REACH registration

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Further information:

Sections in which changes have been made since the last version are marked with a diamond ◆ in the left hand margin.

#### Abbreviations and acronyms in English language:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CLP	Classification for Labeling and Packaging
DSL	Domestic Substances List
EC	European Commission
EC50	Half maximal effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
IATA	International Air Transport Association
IBC	International Bulk Chemical
ICAO	International Civil Aviation Organization
IMDG	International Maritime Code for Dangerous Goods
KECL	Korea Existing Chemicals List
KOC	Soil adsorption coefficient
KOW	Partition Coefficient octanol-water
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
MARPOL	International Convention for the Prevention of Pollution from Ships
MITI	Ministry of International Trade and Industry
NOAEL	No Observed Adverse Effect Level
PBT	Persistent, bioaccumulative and toxic substances
PICCS	Philippine Inventory of Chemicals and Chemical Substances
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT	Specific target organ toxicity
TSCA	Toxic Substances Control Act
UN	United Nations
vPVB	(very) Persistent, (very) Bioaccumulative

#### Sources

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

ECHA	<a href="https://echa.europa.eu/registration-dossier/-/registered-dossier/14126/1">https://echa.europa.eu/registration-dossier/-/registered-dossier/14126/1</a>
Chemid	<a href="https://chem.nlm.nih.gov/chemidplus/rn/25265-77-4">https://chem.nlm.nih.gov/chemidplus/rn/25265-77-4</a>
Inchem	<a href="http://www.inchem.org/documents/sids/sids/25265774.pdf">http://www.inchem.org/documents/sids/sids/25265774.pdf</a>
CDC	<a href="https://www.cdc.gov/niosh/ipcsneng/neng0629.html">https://www.cdc.gov/niosh/ipcsneng/neng0629.html</a>

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