

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form	: Substance
Trade name	: SA30-40: PART 2 LIQUID
IUPAC name	: methyl methacrylate, methyl 2-methylprop-2-enoate, methyl 2-methylpropenoate
EC index no	: 607-035-00-6
EC no	: 201-297-1
CAS No	: 80-62-6
REACH registration No	: 01-2119452498-28

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Use of the substance/mixture : Cross linker

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet**Manufacturer:**

Mix 14 Ltd
Aerospace Logistic Centre
SG62TS Herts - United Kingdom
T: 01462 686300

Supplier:

SATTO solutions Ltd.
SG62TS Herts - United Kingdom
T: 01462 686300
email: info@satto.aero

1.4. Emergency telephone number

Emergency number : 01462 686300
(business hours)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Flammable liquids Category 2	H225
Specific target organ toxicity (single exposure) Category 3	H335
Skin corrosion/irritation Category 2	H315
Sensitisation — Skin, Category 1	H317

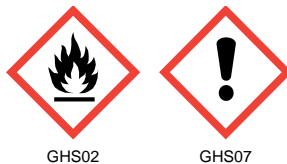
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



Signal word (CLP) : Danger

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour
H335 - May cause respiratory irritation
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames. - No smoking

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P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, lighting, ventilating equipment
P261 - Avoid breathing gas, mist, spray, vapours, fume
P264 - Wash hands, forearms and face thoroughly after handling

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance

Name	Product identifier	%
methyl methacrylate, methyl 2-methylprop-2-enoate, methyl 2-methylpropenoate (Note D)	(CAS No) 80-62-6 (EC no) 201-297-1 (EC index no) 607-035-00-6 (REACH-no) 01-2119452498-28	100

Note D : Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

Full text of H-statements: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In all cases of doubt, or if victim feels unwell seek medical attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. Remove/take off immediately all contaminated clothing.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately and plentifully with water, also under the eyelids, for at least 20 minutes. If eye irritation persists: get medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Rinse mouth thoroughly with water. In all cases of doubt, or when symptoms persist, seek medical advice.

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

Symptoms/injuries after inhalation	: In high concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination. May cause respiratory irritation.
Symptoms/injuries after skin contact	: Effects of skin contact may include : redness. Skin irritation. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: May cause slight temporary irritation.
Symptoms/injuries after ingestion	: Can occur: Gastrointestinal disturbance.

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

None known. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO ₂), water spray, sand, earth.
Unsuitable extinguishing media	: None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Highly flammable liquid and vapour.
Explosion hazard	: Vapours can form explosive mixtures with air. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.
Hazardous decomposition products in case of fire	: Toxic gases and fumes may be released in a fire. Carbon monoxide. Carbon dioxide.

5.3. Advice for firefighters

Firefighting instructions	: Move undamaged containers from immediate hazard area if it can be done safely. Cool down the containers exposed to heat with a water spray.
Protective equipment for firefighters	: Wear proper protective equipment. In case of fire: Wear self-contained breathing apparatus.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable protective clothing.
- Emergency procedures : Spilled material may present a slipping hazard. Avoid contact with skin and eyes. Avoid breathing mist or vapour. Ventilate affected area.

6.1.2. For emergency responders

- Protective equipment : Wear protective gloves/protective clothing/eye protection/face protection. In case of fire: Wear self-contained breathing apparatus.
- Emergency procedures : Evacuate area. Avoid inhalation of vapours. Avoid contact with skin and eyes. Ventilate affected area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Stop leak if safe to do so. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Methods for cleaning up : Flush residue with large amounts of water. Collect all waste in suitable and labelled containers and dispose according to local legislation.

6.4. Reference to other sections

For disposal of residues refer to section 13 : Disposal considerations. For further information refer to section 8: Exposure-controls/personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable. In use, may form flammable vapour-air mixture.
- Precautions for safe handling : Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use explosion-proof electrical/ventilating/lighting.../ equipment.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Take care for general good hygiene and housekeeping.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ground equipment electrically. Use explosion-proof electrical equipment.
- Storage conditions : Protect against direct sunlight. Store tightly closed in a dry, cool and well-ventilated place.
- Incompatible materials : Acids. Strong alkalis. chemically active metals.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

SA30-40: PART 2 LIQUID (80-62-6)		
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (ppm)	100 ppm
United Kingdom	WEL TWA (mg/m ³)	208 mg/m ³
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m ³)	416 mg/m ³
United Kingdom	WEL STEL (ppm)	100 ppm

SA30-40: PART 2 LIQUID (80-62-6)	
DNEL/DMEL (Workers)	
Acute - local effects, dermal	1.5
Long-term - systemic effects, dermal	13.67 mg/kg bodyweight/day
Long-term - local effects, dermal	1.5
Long-term - systemic effects, inhalation	208 mg/m ³
Long-term - local effects, inhalation	208 mg/m ³
DNEL/DMEL (General population)	
Acute - local effects, dermal	1.5
Long-term - systemic effects, inhalation	74.3 mg/m ³
Long-term - systemic effects, dermal	8.2 mg/kg bodyweight/day
Long-term - local effects, dermal	1.5

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Long-term - local effects, inhalation	104 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.94 mg/l
PNEC aqua (marine water)	0.94 mg/l
PNEC aqua (intermittent, freshwater)	0.94 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	5.74 mg/kg dwt
PNEC (Soil)	
PNEC soil	1.47 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

8.2. Exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Colourless liquid.
Colour	: Clear. colourless.
Odour	: Pungent.
Odour threshold	: 0.049
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: -48 °C
Freezing point	: No data available
Boiling point	: 100.36 °C 1013 hPa
Flash point	: 10 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 27.75 mm Hg @ 20°C
Relative vapour density at 20 °C	: 3.45
Relative density	: 0.94 g/cm ³ @ 20°C
Solubility	: Slightly soluble in water.
Log Pow	: 1.38
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 0.6 mPa.s @ 20°C
Explosive properties	: Non explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable at normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization may occur under certain conditions of storage or use.

10.4. Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

10.5. Incompatible materials

Strong acid. Strong alkalis.

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10.6. Hazardous decomposition products

During fire toxic gases (CO, CO₂) are formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

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LD50 dermal rabbit	> 5000 mg/kg
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Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

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NOAEL (chronic, oral, animal/male, 2 years)	>= 4.1 mg/kg bodyweight
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Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

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Persistence and degradability	Readily biodegradable in water.
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12.3. Bioaccumulative potential

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BCF fish 1	6.59
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Log Pow	1.38
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Bioaccumulative potential	not bioaccumulable.
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Dispose of this material and its container to hazardous or special waste collection point.

Waste treatment methods : Avoid release to the environment.

Waste disposal recommendations : This material and its container must be disposed of in a safe manner. Consult the appropriate authorities about waste disposal.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (All modes) : 1247

14.2. UN proper shipping name

Proper Shipping Name (All modes) : METHYL METHACRYLATE MONOMER, STABILIZED

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14.3. Transport hazard class(es)

All modes

Transport hazard class(es) : 3

Danger labels : 3



14.4. Packing group

Packing group : 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

Limited quantities (ADR) : 1L

Excepted quantities (ADR) : E2

Transport category (ADR) : 2

Hazard identification number (Kemler No.) : 339

Orange plates :



Tunnel restriction code (ADR) : D/E

EAC code : 3YE

- Transport by sea

Limited quantities (IMDG) : 1L

Excepted quantities (IMDG) : E2

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-D

- Air transport

PCA Excepted quantities (IATA) : E2

PCA Limited quantities (IATA) : Y341

PCA packing instructions (IATA) : 353

CAO packing instructions (IATA) : 364

- Inland waterway transport

Classification code (ADN) : F1

Limited quantities (ADN) : 1L

Excepted quantities (ADN) : E2

- Rail transport

Classification code (RID) : F1

Limited quantities (RID) : 1L

Excepted quantities (RID) : E2

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 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

SA30-40: PART 2 LIQUID is not on the REACH Candidate List

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SA30-40: PART 2 LIQUID is not on the REACH Annex XIV List

Seveso Information : Main Seveso Category: 7b. Highly Flammable Liquids (Note 3b2)

15.1.2. National regulations

France

Occupational diseases : RG 65 - Lésions eczématiformes de mécanisme allergique
RG 82 - Affections provoquées par le méthacrylate de méthyle

Germany

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 1 or 2; ID No. 154)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (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

Class for fire hazard : Class I-1

Store unit : 1 liter

Classification remarks : F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

SDS	Safety Data Sheet
RID	Regulations concerning the International Carriage of Dangerous Goods by Rai
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
OECD	Organisation for Economic Co-operation and Development
NOEC	No-Observed Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
LD50	Median lethal dose
LC50	Median lethal concentration
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
IARC	International Agency for Research on Cancer
EC50	Median effective concentration
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
BCF	Bioconcentration factor
ATE	Acute Toxicity Estimate
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
PNEC	Predicted No-Effect Concentration
vPvB	Very Persistent and Very Bioaccumulative
PBT	Persistent Bioaccumulative Toxic
DNEL	Derived-No Effect Level

Sources of Key data : SDS - Safety Data Sheet . REACH registration.

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Other information

: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. It is the user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient for the use of this product.

Full text of H- and EUH-statements:

Flam. Liq. 2	Flammable liquids Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapour
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H335	May cause respiratory irritation

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product