

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

Product form : Mixture

Product name : SA 20-10

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 : Bond primer

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	Expert judgment
Acute toxicity (oral), Category 4	H302	Calculation method
Acute toxicity (inhalation:dust,mist) Category 4	H332	Calculation method
Skin corrosion/irritation Category 2	H315	Calculation method
Serious eye damage/eye irritation, Category 1	H318	Calculation method
Carcinogenicity, Category 2	H351	Calculation method
Specific target organ toxicity (single exposure) Category 3	H336	Calculation method
Specific target organ toxicity (single exposure) Category 3	H335	Calculation method

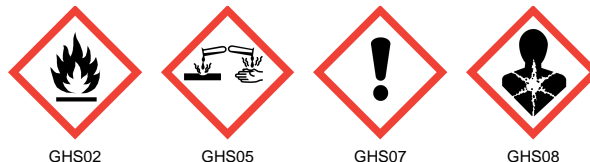
Full text of H statements : see section 16

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

Hazardous ingredients : Tetrahydrofuran; propan-2-ol; acetone, propan-2-one, propanone; cyclohexanone; butanone, ethyl methyl ketone

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour
H302+H332 - Harmful if swallowed or if inhaled
H315 - Causes skin irritation
H318 - Causes serious eye damage
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness

SA 20-10

Safety Data Sheet

according to Regulation (EU) 2015/830

Precautionary statements (CLP)	H351 - Suspected of causing cancer : P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical, lighting, ventilating equipment
--------------------------------	--

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

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
acetone, propan-2-one, propanone	(CAS No) 67-64-1 (EC no) 200-662-2 (EC index no) 606-001-00-8 (REACH-no) 01-2119471330-49	25 - 65	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
butanone, ethyl methyl ketone	(CAS No) 78-93-3 (EC no) 201-159-0 (EC index no) 606-002-00-3 (REACH-no) 01-2119457290-43	5 - 45	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
cyclohexanone	(CAS No) 108-94-1 (EC no) 203-631-1 (EC index no) 606-010-00-7 (REACH-no) 01-2119453616-35	5 - 35	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318
Tetrahydrofuran	(CAS No) 109-99-9 (EC no) 203-726-8 (EC index no) 603-025-00-0 (REACH-no) 01-2119444314-46	0.1 - 30	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335
propan-2-ol	(CAS No) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0 (REACH-no) 01-2119457558-25	0.4 - 20	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Tetrahydrofuran	(CAS No) 109-99-9 (EC no) 203-726-8 (EC index no) 603-025-00-0 (REACH-no) 01-2119444314-46	(C >= 25) Eye Irrit. 2, H319 (C >= 25) STOT SE 3, H335

Full text of H-statements: see section 16

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 case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. Get immediate medical advice/attention.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Seek medical advice. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. In all cases of doubt, or when symptoms persist, seek medical advice.
First-aid measures after ingestion	: If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do not induce vomiting. Immediately call a POISON CENTER or doctor/ physician. If unconscious place in recovery position and seek medical advice. Unconscious: maintain adequate airway and respiration. Never give anything by mouth to an unconscious person.

SA 20-10

Safety Data Sheet

according to Regulation (EU) 2015/830

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

Symptoms/injuries after inhalation	: Harmful by inhalation. May cause irritation to the respiratory tract and to other mucous membranes. High concentration of vapours may induce: headache, dizziness, drowsiness, nausea and vomiting.
Symptoms/injuries after skin contact	: Irritating to skin. Prolonged or repeated contact with the skin may cause dermatitis.
Symptoms/injuries after eye contact	: Permanent eye damage.
Symptoms/injuries after ingestion	: Harmful if swallowed. Ingestion causes nausea, weakness and central nervous system effects.
Chronic symptoms	: Suspected of causing cancer.

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

No additional information available

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	: High power water jet.

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.

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). Wear recommended personal protective equipment.
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. Do not breathe fume, mist, spray, vapours. Avoid contact with skin, eyes and clothing.
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.

SA 20-10

Safety Data Sheet

according to Regulation (EU) 2015/830

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	: Strong acids and oxidants.
Heat and ignition sources	: Store away from direct sunlight or other heat sources. Remove all sources of ignition.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Tetrahydrofuran (109-99-9)		
EU	Local name	Tetrahydrofuran
EU	IOELV TWA (mg/m ³)	150 mg/m ³
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m ³)	300 mg/m ³
EU	IOELV STEL (ppm)	100 ppm
EU	Notes	Skin
United Kingdom	Local name	Tetrahydrofuran
United Kingdom	WEL TWA (mg/m ³)	150 mg/m ³
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m ³)	300 mg/m ³
United Kingdom	WEL STEL (ppm)	100 ppm
United Kingdom	Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
propan-2-ol (67-63-0)		
United Kingdom	Local name	Propan-2-ol
United Kingdom	WEL TWA (mg/m ³)	999 mg/m ³
United Kingdom	WEL TWA (ppm)	400 ppm
United Kingdom	WEL STEL (mg/m ³)	1250 mg/m ³
United Kingdom	WEL STEL (ppm)	500 ppm
acetone, propan-2-one, propanone (67-64-1)		
EU	Local name	Acetone
EU	IOELV TWA (mg/m ³)	1210 mg/m ³
EU	IOELV TWA (ppm)	500 ppm
United Kingdom	Local name	Acetone
United Kingdom	WEL TWA (mg/m ³)	1210 mg/m ³
United Kingdom	WEL TWA (ppm)	500 ppm
United Kingdom	WEL STEL (mg/m ³)	3620 mg/m ³
United Kingdom	WEL STEL (ppm)	1500 ppm
cyclohexanone (108-94-1)		
EU	IOELV TWA (mg/m ³)	41 mg/m ³
EU	IOELV TWA (ppm)	10 ppm
EU	IOELV STEL (mg/m ³)	82 mg/m ³
EU	IOELV STEL (ppm)	20 ppm
United Kingdom	WEL TWA (mg/m ³)	41 mg/m ³
United Kingdom	WEL TWA (ppm)	10 ppm
United Kingdom	WEL STEL (mg/m ³)	82 mg/m ³
United Kingdom	WEL STEL (ppm)	20 ppm
United Kingdom	Remark (WEL)	Can Be Absorbed Through Skin
butanone, ethyl methyl ketone (78-93-3)		
EU	Local name	Butanone
EU	IOELV TWA (mg/m ³)	600 mg/m ³
EU	IOELV TWA (ppm)	200 ppm
EU	IOELV STEL (mg/m ³)	900 mg/m ³
EU	IOELV STEL (ppm)	300 ppm
United Kingdom	Local name	Butan-2-one (methyl ethyl ketone)
United Kingdom	WEL TWA (mg/m ³)	600 mg/m ³
United Kingdom	WEL TWA (ppm)	200 ppm

SA 20-10

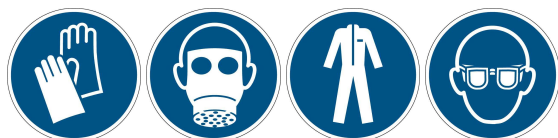
Safety Data Sheet

according to Regulation (EU) 2015/830

butanone, ethyl methyl ketone (78-93-3)		
United Kingdom	WEL STEL (mg/m ³)	899 mg/m ³
United Kingdom	WEL STEL (ppm)	300 ppm
United Kingdom	Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity), BMGV (Biological monitoring guidance values are listed in Table 2)

8.2. Exposure controls

Appropriate engineering controls	: Provide adequate ventilation.
Personal protective equipment	: Gloves. Insufficient ventilation: wear respiratory protection. Full protective flameproof clothing. Safety glasses.
Hand protection	: Chemical resistant PVC gloves (to European standard EN 374 or equivalent)
Eye protection	: Chemical goggles or face shield with safety glasses. Use splash goggles when eye contact due to splashing is possible
Skin and body protection	: Wear fire/flame resistant/retardant clothing
Respiratory protection	: Approved organic vapour respirator



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: -110 °C
Boiling point	: 86 °C @ 760 mmHg
Flash point	: No data available
Auto-ignition temperature	: 448 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 155 mm Hg @ 25 °C
Relative vapour density at 20 °C	: 2.5
Relative density	: No data available
Density	: 0,888 g/cm ³
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 0.5 mPa.s @ 25 °C
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

SA 20-10

Safety Data Sheet

according to Regulation (EU) 2015/830

10.2. Chemical stability

Stable at normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong acid. Strong alkalis.

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	: Oral: Harmful if swallowed. Inhalation:dust,mist: Harmful if inhaled.
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness. 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

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

SA 20-10

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) : 1993

SA 20-10

Safety Data Sheet

according to Regulation (EU) 2015/830

14.2. UN proper shipping name

Proper Shipping Name (All modes) : FLAMMABLE LIQUID, N.O.S. (contains acetone, butanone, cyclohexanone, Tetrahydrofuran and propan-2-ol)

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

Special provisions (ADR) : 274, 601, 640C

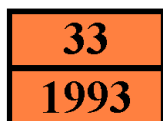
Limited quantities (ADR) : 1I

Excepted quantities (ADR) : E2

Transport category (ADR) : 2

Hazard identification number (Kemler No.) : 33

Orange plates :



Tunnel restriction code (ADR) : D/E

EAC code : •3YE

- Transport by sea

Special provisions (IMDG) : 274

Limited quantities (IMDG) : 1 L

Excepted quantities (IMDG) : E2

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-E

- 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) : 1 L

Excepted quantities (ADN) : E2

- Rail transport

Classification code (RID) : F1

Limited quantities (RID) : 1L

Excepted quantities (RID) : E2

SA 20-10

Safety Data Sheet

according to Regulation (EU) 2015/830

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

A chemical safety assessment has been carried out for the substance or the mixture by the supplier

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

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:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3

SA 20-10

Safety Data Sheet

according to Regulation (EU) 2015/830

H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer

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