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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

**Product name:** BOND PRIMER

**Product Code:** SA20-10

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

**Intended use:** Bond Primer

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

**Manufacturer:** Mix 14 Ltd  
 Aerospace Logistics Centre  
 SG6 2TS, Herts, UK

**Distributor:** SATTO Solutions Ltd  
 Aerospace Logistics Centre  
 SG6 2TS, Herts, UK

**Tel:** +44 1462 686300

**Email:** [info@satto.aero](mailto:info@satto.aero)

### 1.4 Emergency telephone number

**Emergency tel:** +44 1462 686300 (business hours)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

<b>Classification according to Regulation (EC) No. 1272/2008 [CLP]:</b>	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 physiochemical, human health + environmental effects:** No additional information available

### 2.2 Label Elements

**Signal words:** Danger

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

**Hazard Pictograms (CLP):** GHS02: Flame  
 GHS05: Corrosive  
 GHS07: Exclamation Mark  
 GHS08: Health Hazard



**Hazard Statements:** H225: Highly flammable liquid and vapour  
 H302+H332: Harmful if swallowed or inhaled

H315: Causes skin irritation  
H318: Causes serious eye damage  
H335: May cause respiratory irritation  
H336: May cause drowsiness or dizziness  
H351: Suspected of causing cancer

**Precautionary Statements:** 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  
P260: Do not breathe dust/fumes/gas/mist/vapours/spray  
P261: Avoid breathing vapours  
P280: Wear protective gloves/protective clothing/eye protection/face protection  
P203+P352: IF ON SKIN: Wash with plenty of water

### 2.3 Other Hazards

**Other hazards:** None if used properly

**PBT:** Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and Bioaccumulative (vPvB) criteria

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance

**Substance:** Not applicable

### 3.3 Mixture

Name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
acetone, propan-2-one, propanone	CAS #67-64-1 EC #200-662-2 EC Index #606-001-00-8 REACH #01-2119471330-49	25-65	Flam Liq 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
butanone, ethyl methyl ketone	CAS #78-93-3 EC #201-159-0 EC Index #606-002-00-3 REACH #01-2119457290-43	5-45	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE3, H336
cyclohexanone	CAS #101-94-1 EC #203-631-1 EC Index #606-010-00-7 REACH #01-2119453616-35	5-35	Flam. Liq. 3 H226 Acute Tox. 4 (Dermal) H213 Acute Tox. 4 (Inhalation: dust mist) H332 Skin Irrit. 2, H315 Eye Dam. 1, H318
tetrahydrofuran	CAS #109-99-9 EC #203-726-8 EC Index #603-025-00-0 REACH #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 #67-63-0 EC #200-661-7 EC Index #603-117-00-0 REACH #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 #109-99-9 EC #203-726-8 EC Index #603-025-00-0 REACH #01-2119444314-46	(C ≥ 25) Eye Irrit. 2, H319 (C ≥ 25) STPT SE 3. H335

Full text of H-Statements, see Section 16

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

- 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
- 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.
- 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.
- 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

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

- Skin contact:** Irritating to skin. Prolonged or repeated contact with the skin may cause dermatitis
- Eye contact:** Permanent eye damage.
- Ingestion:** Harmful if swallowed. Ingestion causes nausea, weakness and central nervous system effects.
- 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.

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

**Delayed/immediate effects:** See 4.1 above.

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

**Extinguishing media:** dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>), water spray, sand, earth  
**Do not use:** 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.
- Hazard decomposition products in case of fire:** Toxic gases and fumes may be released in a fire. Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for fire-fighters

**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.

#### 6.1.1 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

**Environmental precautions:** Avoid release to the environment

### 6.3 Methods and materials 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

**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.

### 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 & ignition sources:** Store away from direct sunlight or other heat sources. Remove all sources of ignition.

### 7.3 Specific end use(s)

**Specific end use:** 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 <sup>3</sup> )	150 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	100 ppm
EU	Notes	Skin
United Kingdom	Local name	Tetrahydrofuran
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	100 ppm
United Kingdom	Remark (WEL)	Skin (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 <sup>3</sup> )	999 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	400 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	1250 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	500 ppm

#### Acetone, propan-2-one, propanone (67-64-1)

EU	Local name	Acetone
EU	IOELV TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	500 ppm
United Kingdom	Local name	Acetone
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	500 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	3260 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	1500 ppm

#### Cyclohexanone (108-94-1)

EU	IOELV TWA (mg/m <sup>3</sup> )	41 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	10 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	82 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	20 ppm
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	41 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	10 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	82 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	20 ppm

United Kingdom	Remark (WEL)	Can be absorbed through skin
<b>Butanone, ethyl methyl ketone (78-93-3)</b>		
EU	Local name	Butanone
EU	IOELV TWA (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	200 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	300 ppm
United Kingdom	Local name	Butan-2-one (methyl ethyl ketone)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	899 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	300 ppm
United Kingdom	Remark (WEL)	Skin (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 protective gloves (to European standard EN374 or equivalent)

**Eye protection:** Safety glasses with side shields or chemical safety goggles should be worn if there is a risk of splashing.  
Protective eye equipment should conform to EN166.

**Skin 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:** Characteristic odour

**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 @760mmHg

<b>Flash point:</b>	No data available
<b>Auto-ignition temperature:</b>	448°C
<b>Decomposition temperature:</b>	No data available/ Not applicable
<b>Vapour pressure:</b>	155mm Hg @ 25 °C
<b>Density (20,0 °C (68 °F)):</b>	0,8000 g/cm <sup>3</sup>
<b>Relative vapour density at (20,0 °C (68 °F)):</b>	2.5
<b>Relative density:</b>	No data available/ Not applicable
<b>Viscosity (dynamic):</b>	0.5mPa.s @ 25 °C
<b>Viscosity (kinematic):</b>	No data available/ Not applicable
<b>Explosive properties:</b>	No data available/ Not applicable
<b>Solubility (qualitative):</b>	Soluble in water
<b>Log Pow:</b>	No data available/ Not applicable
<b>Flammability (solid, gas):</b>	No data available/ Not applicable
<b>Explosive properties:</b>	No data available/ Not applicable
<b>Oxidising properties:</b>	No data available/ Not applicable

## 9.2 Other Information

**Other information:** No data available/ Not applicable

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

**Reactivity:** Stable under normal conditions

### 10.2 Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

**Hazardous reactions:** No additional information available

### 10.4 Conditions to avoid

**Conditions to avoid:** Heat, flames, sparks and other sources of ignition. No smoking

### 10.5 Incompatible materials

**Materials to avoid:** Strong acid. Strong alkalis.

### 10.6 Hazardous decomposition products

**Hazardous Decomposition Products:** During fire toxic gases (CO, CO<sub>2</sub>) are formed.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

<b>Acute toxicity:</b>	Oral: Harmful if swallowed. Inhalation: dust, mist; Harmful if inhaled.
<b>Skin corrosion/irritation:</b>	Causes skin irritation.
<b>Serious eye damage/irritation:</b>	Causes serious eye damage
<b>Respiratory or skin sensitisation:</b>	Not classified
<b>Germ cell mutagenicity:</b>	Not classified
<b>Carcinogenicity:</b>	Suspected of causing cancer

**Reproductive toxicity:** Not classified  
**STOT (single exposure):** May cause drowsiness or dizziness. May cause respiratory irritation.  
**STOT (repeated exposure):** Not classified  
**Aspiration hazard:** Not classified

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Toxicity:** No additional information available

### 12.2 Persistence and degradability

**Persistence/degradability:** No additional information available

### 12.3 Bio accumulative potential

**Bio accumulative potential:** No additional information available

### 12.4 Mobility in soil

**Mobility:** No additional information available

### 12.5 Results of PBT and vPvB assessment

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

**Other adverse effects:** No data 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 Number (all modes):** 1993

### 14.2 UN proper shipping name

**Shipping name (all modes):** FLAMMABLE LIQUID, N.O.S. (contains acetone, butanone, cyclohexanone, tetrahydrofuran and propan-2-ol)

### 14.3 Transport hazard class(es)

**Transport Class:** 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 No. (Kemler No.): 33

Orange plates:



Tunnel restriction code: 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

## 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 & 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

**National Regulations:** No additional information available.

## 15.2 Chemical Safety Assessment

**Chemical Safety:** A chemical safety assessment has been carried out for the substance or 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
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)**

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