

Safety data sheet

according to UK REACH Regulation

Printing date 20.01.2023

Version number 21 (replaces version 20)

Revision: 20.01.2023

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

- **1.1 Product identifier**
 - Trade name **Jowat Primer 406.28**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

 - **Application of the substance / the mixture** Primer
- **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**

Jowat SE
Ernst-Hilker-Str. 10 - 14; D - 32758 Detmold
Fon +49 (0)5231 749 0
e-mail: info@jowat.de
www.jowat.de
 - **Department issuing data specification sheet:**

Environmental management
Tel. +49 5231 749 -218 / -211 / -5460 / -5374
e-mail: umweltmanagement@jowat.de
 - **Department providing the information:**

Jowat UK Ltd.
Lymedale Business Centre
Lymedale Business Park
Hooters Hall Road
Newcastle-under-Lyme
Staffordshire
ST5 9QF
Phone: +44 1782 565265
E-mail: nick.orton@jowat.co.uk
- **1.4 Emergency telephone number:**

Members of the public seeking specific information on poisons should contact:
In England and Wales: NHS 111 - dial 111
In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008**



flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.
 - **Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger

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- **Hazard-determining components of labelling:**

butanone

- **Hazard statements**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

- **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents / container to approved waste disposal or recycling in accordance with national regulations.

- **Additional information:**

EUH066 Repeated exposure may cause skin dryness or cracking.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Description:** Solvent mixture with additives.

- **Dangerous components:**

CAS: 78-93-3	butanone	>50%
EINECS: 201-159-0	Fam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336,	
registration number:	EUH066	
01-2119457290-43		
01-2119943742-35		

- **Additional information**

If any R-phrases (risk-phrases) are listed, please refer for the exact wording to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General information**

Instantly remove any clothing soiled by the product.

Take affected persons into the open air.

- **After inhalation** Supply fresh air; consult physician in case of symptoms.

- **After skin contact** Instantly wash with water and soap and rinse thoroughly.

- **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult physician.

- **After swallowing** In case of persistent symptoms consult physician.

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

No further relevant information available.

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

If swallowed or in case of vomiting, danger of entering the lungs

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents**

Foam extinguishing agent

CO₂, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.

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- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
Can be released in case of fire
Carbon monoxide (CO)
- **5.3 Advice for firefighters**
 - **Protective equipment:**
Wear self-contained breathing apparatus.
Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or water bodies.
Prevent material from reaching sewage system, holes and cellars.
Prevent from spreading (e.g. by damming-in or oil barriers).
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

* SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Store in cool, dry place in tightly closed containers.
Ensure good ventilation/extraction system at the workplace.
Open and handle container with care.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Use only in explosion-proof area.
Highly volatile, flammable constituents are released during processing.
Fumes can combine with air to form an explosive mixture.
Flammable mixtures may be formed in empty containers.
- **7.2 Conditions for safe storage, including any incompatibilities**
 - **Storage**
 - **Requirements to be met by storerooms and containers:** Store in cool location.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:**
Protect against frost.
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

· **Components with critical values that require monitoring in the workplace:**

78-93-3 butanone

WEL	Short-term value: 899 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm Sk, BMGV
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- **Regulatory information** WEL: EH40/2020

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· Ingredients with biological limit values:	
78-93-3 butanone	
BMGV	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one

· **Regulatory information** BMGV: EH40/2011· **Additional information:** The lists that were valid during the compilation were used as basis.· **8.2 Exposure controls**· **Appropriate engineering controls** No further data; see item 7.· **Additional information about design of technical systems:** No further data; see item 7.· **Individual protection measures, such as personal protective equipment**· **General protective and hygienic measures**

Standard precautionary measures for handling chemicals are to be observed.

Keep away from food, beverages and animal feed.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Do not eat or drink while working.

· **Breathing equipment:**

Use breathing protection in case of insufficient ventilation (EN 14387).

Short term filter device:

Filter AX (boiling point < 61 °C); Filter A (boiling point > 60 °C).

Only when applied by spray methods, if no adequate extraction system is in place (EN 149).

Filter A/P2

· **Hand protection** Impervious gloves (EN 374).· **Material of gloves** Butyl rubber, BR· **Penetration time of glove material**

The exact time limit until penetration has to be found out from the manufacturer of the protective gloves; please ensure that this value is not exceeded.

· **Gloves made of the following material are suitable for the permanent contact with this material in work areas which do not have an above-average risk of injury (e.g. laboratories):**

LLDPE gloves

· **For the permanent contact gloves made of the following materials are suitable:** LLDPE gloves· **For permanent contact of max. 15 minutes, gloves made of the following materials are suitable:**

Butyl rubber, BR

· **To protect against splashing, gloves made of the following materials are suitable:**

Fluorocarbon rubber (Viton)

· **Not suitable are gloves made of the following materials:**

Natural rubber, NR

Chloroprene rubber, CR

Leather gloves

Strong gloves

· **Eye/face protection**

Safety glasses recommended during refilling and spraying.

Safety glasses

* **SECTION 9: Physical and chemical properties**· **9.1 Information on basic physical and chemical properties**· **General Information**· **Physical state**

Fluid

· **Colour:**

According to product specification

· **Smell:**

Characteristic

· **Odour threshold:**

Not determined.

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<ul style="list-style-type: none"> · Melting point/freezing point: · Boiling point or initial boiling point and boiling range · Flammability · Lower and upper explosion limit <ul style="list-style-type: none"> · Lower: · Upper: · Flash point: · Ignition temperature: · Decomposition temperature: · pH · Viscosity: <ul style="list-style-type: none"> · Kinematic viscosity · dynamic at 20 °C: · Solubility <ul style="list-style-type: none"> · Water: · Partition coefficient n-octanol/water (log value) · Vapour pressure at 20 °C: · Density and/or relative density <ul style="list-style-type: none"> · Density at 20 °C · Relative density · Vapour density 	<ul style="list-style-type: none"> Not determined 80 °C Highly flammable. 1.8 Vol % 11.5 Vol % -4 °C 514 °C Not determined. Not determined. Not determined. 40 mPas Not miscible or difficult to mix Not determined. 101 hPa 0.85 g/cm³ Not determined. Not determined.
<ul style="list-style-type: none"> · 9.2 Other information · VOC - Volatile Organic Compounds <ul style="list-style-type: none"> · European Union · Switzerland · U.S.A (less water and less exempts) · Appearance: <ul style="list-style-type: none"> · Form: · Important information on protection of health and environment, and on safety. <ul style="list-style-type: none"> · Spontaneous combustion: · Explosive properties: · Solvent content: <ul style="list-style-type: none"> · Organic solvents: · Solid content: · Change in condition <ul style="list-style-type: none"> · Evaporation rate 	<ul style="list-style-type: none"> 88.08 % 88.08 % 748.7 g/l / 6.25 lb/gal Fluid Product does not undergo spontaneous combustion. Product is not explosive. However, formation of explosive air/steam mixtures is possible. 88.1 % 10.5 % Not determined.
<ul style="list-style-type: none"> · Information with regard to physical hazard classes · Explosives · Flammable gases · Aerosols · Oxidising gases · Gases under pressure · Flammable liquids · Flammable solids · Self-reactive substances and mixtures · Pyrophoric liquids · Pyrophoric solids · Self-heating substances and mixtures · Substances and mixtures, which emit flammable gases in contact with water · Oxidising liquids 	<ul style="list-style-type: none"> not applicable not applicable not applicable not applicable not applicable Highly flammable liquid and vapour. not applicable not applicable not applicable not applicable not applicable not applicable not applicable not applicable

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· Oxidising solids	not applicable
· Organic peroxides	not applicable
· Corrosive to metals	not applicable
· Desensitised explosives	not applicable

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
 - **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
Forms explosive gas mixture with air
Develops readily flammable gases / fumes
Reacts with strong acids and alkali
Used empty containers may contain product gases which form explosive mixtures with air
Forms explosive gas mixture with air
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Hydrocarbons
Inflammable gases/vapours
Carbon monoxide and carbon dioxide

* SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
 - **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**

78-93-3 butanone

Oral	LD50 oral	2,193 mg/kg (rat) (OECD 423)
Dermal	LD50 dermal	>5,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50 / 4 h	40 mg/l (mouse) 34.5 mg/l (rat)

- **to the eye:** Causes serious eye irritation.
- **STOT-single exposure** May cause drowsiness or dizziness.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

78-93-3 butanone

List II

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

78-93-3 butanone

LC50 / 96 h	>3,000 mg/l (orfe (ide)) (OECD 203) 2,993 mg/l (fathead minnow)
LC50 / 48 h	1,723 mg/l (water flea) (OECD 202)
LC0	4,400-4,800 mg/l (orfe (ide)) 1,150 mg/l (pseudomonas putida)
EC50 / 48 h	>100 mg/l (water flea)
EC0	2,000-2,600 mg/l (water flea)
IC0	4,300 mg/l (green algae)

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- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
 - **Additional ecological information:**
 - **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow the product to reach ground water, open water or the sewer system, undiluted or in large quantities.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
 - **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Hand over to disposers of hazardous waste.
- **Uncleaned containers/packaging material:**
 - **Recommendation:**

Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

Packaging can be reused or recycled after cleaning.



Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

Packaging with cured adhesive residues can be recycled.

Packaging with cured adhesive residues can be treated as household waste.

Packaging with uncured adhesive residues must be disposed of as hazardous waste.
 - **Recommended cleaning agent:** Solvent naphtha

SECTION 14: Transport information

- | | |
|--|--------------------------------|
| <ul style="list-style-type: none"> · 14.1 UN number or ID number <ul style="list-style-type: none"> · ADR, IMDG, IATA | UN1133 |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name <ul style="list-style-type: none"> · ADR · IMDG, IATA | 1133 ADHESIVES
ADHESIVES |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) <ul style="list-style-type: none"> · ADR | |
|  | |
| <ul style="list-style-type: none"> · Class · Label | 3 (F1) Flammable liquids.
3 |
| <ul style="list-style-type: none"> · IMDG, IATA | |
|  | |
| <ul style="list-style-type: none"> · Class · Label | 3 Flammable liquids.
3 |

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· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Kemler Number: · EMS Number: · Stowage Category	Warning: Flammable liquids. 33 F-E, S-D B
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category · Tunnel restriction code	5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1133 ADHESIVES, 3, II

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
 - Chemical safety assessment
 - Seveso category P5c FLAMMABLE LIQUIDS
 - Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
 - Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

These data are based on our present knowledge. They shall, however, not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

All standard industrial precautions apply, concerning protection of health, and safe handling. The recommendations have to be examined in the context of the application for which the product is intended, and observed as necessary.

· Relevant phrases

- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- EUH066 Repeated exposure may cause skin dryness or cracking.

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

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IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· *** Data modified in comparison to the previous version.**

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Annex: Exposure scenario 1

- **Product category** PC9a Coatings and paints, thinners, paint removers
- **Process category** PROC14 Tableting, compression, extrusion, pelletisation, granulation
- **Environmental release category**
ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
- **Notes** Do not use for private / domestic purposes (household).
- **Description of the activities / processes covered in the Exposure Scenario**
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
 - **Duration and frequency** 8hrs (full working shift).
- **Physical parameters**
 - **Physical state** Fluid
 - **Concentration of the substance in the mixture** The substance is main component.
- **Other operational conditions**
 - **Other operational conditions affecting worker exposure**
Observe section 6 of the Safety Data Sheet (Accidental release measures).
- **Risk management measures**
 - **Worker protection**
 - **Organisational protective measures**
Ensure good ventilation. This can be achieved by using a local exhaust or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.
 - **Technical protective measures** Ensure good ventilation/extraction system at the workplace.
 - **Personal protective measures**
Protective work clothing.
Wear suitable protective gloves and protective goggles /face protection during work.
Use breathing protection in case of insufficient ventilation (EN 149).
Avoid contact with the eyes and skin.
 - **Measures for consumer protection** Ensure adequate labelling.
- **Environmental protection measures**
 - **Water** Do not allow to reach ground water, water bodies or sewage system.
 - **Soil** Avoid contact with soil and / or ground water during the application.
 - **Notes** In case of unintended release of the product: See section 6 of the Safety Data Sheet.
- **Disposal measures**
Must not be disposed of with household waste. Do not allow to reach sewage system.
Disposal must be made according to official regulations.
Ensure that waste is collected and contained.
 - **Disposal procedures**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
 - **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
 - **Worker (inhalation)**
Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.
 - **Consumer** Not applicable
- **Guidance for downstream users** No further relevant information available.

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Annex: Exposure scenario 2

- **Sector of Use**
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category** PC9a Coatings and paints, thinners, paint removers
- **Process category**
PROC11 Non industrial spraying
PROC19 Manual activities involving hand contact
- **Environmental release category**
ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
- **Notes** Do not use for private / domestic purposes (household).
- **Description of the activities / processes covered in the Exposure Scenario**
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
 - **Duration and frequency** 8hrs (full working shift).
- **Physical parameters**
 - **Physical state** Fluid
 - **Concentration of the substance in the mixture** The substance is main component.
- **Other operational conditions**
 - **Other operational conditions affecting worker exposure**
Observe section 6 of the Safety Data Sheet (Accidental release measures).
- **Risk management measures**
 - **Worker protection**
Instantly remove any clothing soiled by the product.
Take affected persons into the open air.
 - **Organisational protective measures**
Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system.
If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.
 - **Technical protective measures** Ensure good ventilation/extraction system at the workplace.
 - **Personal protective measures**
Protective work clothing.
Wear suitable protective gloves and protective goggles /face protection during work.
Use breathing protection in case of insufficient ventilation (EN 149).
Avoid contact with the eyes and skin.
 - **Measures for consumer protection** Ensure adequate labelling.
 - **Environmental protection measures**
 - **Water** Do not allow to reach ground water, water bodies or sewage system.
 - **Soil** Avoid contact with soil and / or ground water during the application.
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 - **Worker (inhalation)**
Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.
 - **Consumer** Not applicable
- **Guidance for downstream users** No further relevant information available.