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

#### 1.1 Product identifier

Product name : Setin liquid

Product code 108365E

Use of the Laundry product

Substance/Mixture

Substance type: : Mixture

For professional users only.

Product dilution information : No dilution information provided.

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

Identified uses : Laundry aid (non-gasing). Automatic process

Recommended restrictions

on use

: Reserved for industrial and professional use.

# 1.3 Details of the supplier of the safety data sheet

: Ecolab Ltd. Company

PO Box 11; Winnington Avenue

Northwich, Cheshire, United Kingdom CW8 4DX

+ 44 (0)1606 74488 ccs@ecolab.com

## 1.4 Emergency telephone number

Emergency telephone : +441618841235

number +32-(0)3-575-5555 Trans-European

Poison Information Centre : Not Available

telephone number

Date of Compilation/Revision : 07.07.2017 Version : 1.0

# **Section: 2. HAZARDS IDENTIFICATION**

## 2.1 Classification of the substance or mixture

# Classification (REGULATION (EC) No 1272/2008)

Serious eye damage, Category 1 H318

#### 2.2 Label elements

# Labelling (REGULATION (EC) No 1272/2008)

108365E 1/12

Hazard pictograms



Signal Word : Danger

**Hazard Statements** : H318 Causes serious eye damage.

Supplemental Hazard

Statements

: EUH031

Contact with acids liberates toxic gas.

**Precautionary Statements** : Prevention:

> P280e Wear eye protection/face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water

> for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

Hazardous components which must be listed on the label: sodium metabisulphite

#### 2.3 Other hazards

None known.

# Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2 Mixtures

#### **Hazardous components**

Chemical Name	CAS-No. EC-No. REACH No.	ClassificationREGULATION (EC) No 1272/2008	Concentration: [%]
sodium metabisulphite	7681-57-4 231-673-0 01-2119531326-45	Acute toxicity Category 4; H302 Serious eye damage Category 1; H318	>= 30 - < 50

For the full text of the H-Statements mentioned in this Section, see Section 16.

# **Section: 4. FIRST AID MEASURES**

#### 4.1 Description of first aid measures

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for

at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact : Rinse with plenty of water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention

if symptoms occur.

108365E 2/12

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

See Section 11 for more detailed information on health effects and symptoms.

# 4.3 Indication of immediate medical attention and special treatment needed

**Treatment** : Treat symptomatically.

#### Section: 5. FIREFIGHTING MEASURES

# 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: None known.

## 5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Exposure to decomposition products may be a hazard to health.

Hazardous combustion

products

: Decomposition products may include the following materials:

Carbon oxides

nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus

#### 5.3 Advice for firefighters

for firefighters

Special protective equipment: Use personal protective equipment.

Further information : Fire residues and contaminated fire extinguishing water must be

disposed of in accordance with local regulations. In the event of

fire and/or explosion do not breathe fumes.

# Section: 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency

personnel

: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the

exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to

protective measures listed in sections 7 and 8.

Advice for emergency

responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable

materials.

## 6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water.

## 6.3 Methods and materials for containment and cleaning up

108365E 3/12

Methods for cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with

non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a

waterway.

## 6.4 Reference to other sections

See Section 1 for emergency contact information.

For personal protection see section 8.

See Section 13 for additional waste treatment information.

## Section: 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Advice on safe handling : Do not get in eyes, on skin, or on clothing. Do not breathe

dust/fume/gas/mist/vapours/spray. Use only with adequate

ventilation. Wash hands thoroughly after handling.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. Remove and wash contaminated clothing before re-use.

Wash face, hands and any exposed skin thoroughly after

handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

# 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: Keep out of reach of children. Keep container tightly closed. Store

in suitable labeled containers.

Storage temperature : 5 °C to 50 °C

7.3 Specific end uses

Specific use(s) : Laundry aid (non-gasing). Automatic process

# Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

## **Occupational Exposure Limits**

Components	CAS-No.		Value type (Form of exposure)	Control parameters	Basis
sodium metabisulphite	7681-5	7-4	TWA	5 mg/m3	UKCOSSTD
Further information	2		Where no specific short-term exposure limit is listed, a figure three long-term exposure should be used		

#### 8.2 Exposure controls

## Appropriate engineering controls

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

108365E 4 / 12

#### Individual protection measures

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. Remove and wash contaminated clothing before re-use.

Wash face, hands and any exposed skin thoroughly after

handling. Provide suitable facilities for quick drenching or flushing

of the eyes and body in case of contact or splash hazard.

Eye/face protection (EN 166) : Safety goggles

Face-shield

Hand protection (EN 374) : No special protective equipment required.

Skin and body protection

(EN 14605)

: No special protective equipment required.

Respiratory protection (EN

143, 14387)

: None required if airborne concentrations are maintained below the

exposure limit listed in Exposure Limit Information. Use certified

respiratory protection equipment meeting EU

requirements(89/656/EEC, 89/686/EEC), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods

or procedures of work organization.

## **Environmental exposure controls**

General advice : Consider the provision of containment around storage vessels.

## Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

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

**Appearance** : liquid

Colour : light yellow Odour : pungent

: 3.0 - 4.5, 100 % pΗ Flash point : Not applicable.

Odour Threshold : Not applicable and/or not determined for the mixture

Melting point/freezing point : Not applicable and/or not determined for the mixture Initial boiling point and

boiling range

: Not applicable and/or not determined for the mixture

Evaporation rate : Not applicable and/or not determined for the mixture

Flammability (solid, gas) : Not applicable and/or not determined for the mixture Upper explosion limit : Not applicable and/or not determined for the mixture

Lower explosion limit : Not applicable and/or not determined for the mixture

Vapour pressure : Not applicable and/or not determined for the mixture : Not applicable and/or not determined for the mixture Relative vapour density

: 1.27 - 1.36 Relative density Water solubility : soluble

108365E 5/12

Solubility in other solvents : Not applicable and/or not determined for the mixture

Partition coefficient: n-

octanol/water

: Not applicable and/or not determined for the mixture

Auto-ignition temperature : Not applicable and/or not determined for the mixture

Thermal decomposition : Not applicable and/or not determined for the mixture

: Not applicable and/or not determined for the mixture Viscosity, kinematic

Explosive properties : Not applicable and/or not determined for the mixture

: The substance or mixture is not classified as oxidizing. Oxidizing properties

#### 9.2 Other information

Not applicable and/or not determined for the mixture

## Section: 10. STABILITY AND REACTIVITY

## 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

## 10.4 Conditions to avoid

None known.

## 10.5 Incompatible materials

Acids

**Bases** 

## 10.6 Hazardous decomposition products

Decomposition products may include the following materials:

Carbon oxides

nitrogen oxides (NOx)

Sulphur oxides

Oxides of phosphorus

## Section: 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

Information on likely routes of : Inhalation, Eye contact, Skin contact

exposure

## **Product**

108365E 6/12

Acute oral toxicity : Acute toxicity estimate : > 2,000 mg/kg

Acute inhalation toxicity : There is no data available for this product.

Acute dermal toxicity : There is no data available for this product.

Skin corrosion/irritation : There is no data available for this product.

Serious eye damage/eye

irritation

: There is no data available for this product.

Respiratory or skin

sensitization

: There is no data available for this product.

Carcinogenicity : There is no data available for this product.

Reproductive effects : There is no data available for this product.

Germ cell mutagenicity : There is no data available for this product.

Teratogenicity : There is no data available for this product.

STOT - single exposure : There is no data available for this product.

STOT - repeated exposure : There is no data available for this product.

Aspiration toxicity : There is no data available for this product.

Components

Acute oral toxicity : sodium metabisulphite

LD50 rat: 1,540 mg/kg

Components

Acute inhalation toxicity : sodium metabisulphite

4 h LC50 rat: 5.5 mg/l

**Potential Health Effects** 

Eyes : Causes serious eye damage.

Skin : Health injuries are not known or expected under normal use.

Ingestion : Health injuries are not known or expected under normal use.

Inhalation : Health injuries are not known or expected under normal use.

Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact : Redness, Pain, Corrosion

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

108365E 7 / 12

## Section: 12. ECOLOGICAL INFORMATION

## 12.1 Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

**Product** 

Toxicity to fish : no data available

Toxicity to daphnia and other : no data available

aquatic invertebrates

Toxicity to algae : no data available

Components

Toxicity to fish : sodium metabisulphite

96 h LC50 Fish: 150 mg/l

## 12.2 Persistence and degradability

#### **Product**

no data available

#### Components

Biodegradability : sodium metabisulphite

Result: Not applicable - inorganic

## 12.3 Bioaccumulative potential

no data available

## 12.4 Mobility in soil

no data available

#### 12.5 Results of PBT and vPvB assessment

#### **Product**

Assessment : This substance/mixture contains no components considered to be

either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or

higher.

## 12.6 Other adverse effects

no data available

# Section: 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with the European Directives on waste and hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

#### 13.1 Waste treatment methods

108365E 8 / 12

Product : Where possible recycling is preferred to disposal or incineration. If

recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal

facility.

Contaminated packaging : Dispose of as unused product. Empty containers should be taken

to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local,

state, and federal regulations.

Guidance for Waste Code

selection

: Inorganic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC)

and local regulations.

## **Section: 14. TRANSPORT INFORMATION**

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (ADR/ADN/RID)

14.1 UN number : 2693

14.2 UN proper shipping : BISULPHITES, AQUEOUS SOLUTION, N.O.S.

name

(sodium metabisulphite)

14.3 Transport hazard : 8

class(es)

14.4 Packing group : III14.5 Environmental hazards : No14.6 Special precautions for : None

user

Air transport (IATA)

14.1 UN number : 2693

14.2 UN proper shipping : Bisulphites, aqueous solution, n.o.s.

name

(sodium metabisulphite)

14.3 Transport hazard : 8

class(es)

14.4 Packing group : III
14.5 Environmental hazards : No
14.6 Special precautions for : None

user

Sea transport (IMDG/IMO)

14.1 UN number : 2693

14.2 UN proper shipping : BISULPHITES, AQUEOUS SOLUTION, N.O.S.

name

(sodium metabisulphite)

14.3 Transport hazard : 8

class(es)

14.4 Packing group : III
14.5 Environmental hazards : No
14.6 Special precautions for : None

108365E 9 / 12

user

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

: Not applicable.

Code

#### **Section: 15. REGULATORY INFORMATION**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **National Regulations**

Take note of Dir 94/33/EC on the protection of young people at work.

Other regulations : The Chemicals (Hazard Information and Packaging for Supply)

Regulations.

The Control of Substances Hazardous to Health Regulations.

Health and Safety at Work Act.

## 15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

#### **Section: 16. OTHER INFORMATION**

## Procedure used to derive the classification according to REGULATION (EC) No 1272/2008

	Classification	Justification
	Serious eye damage 1, H318	Calculation method

# **Full text of H-Statements**

H302 Harmful if swallowed.

H318 Causes serious eye damage.

#### Full text of other abbreviations

ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM -American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL -Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number -European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx – Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 – Lethal Concentration to 50 % of a test population; LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC

108365E 10 / 12

No Observed (Adverse) Effect Concentration; NO(A)EL – No Observed (Adverse) Effect Level;
 NOELR – No Observable Effect Loading Rate; NZIoC – New Zealand Inventory of Chemicals;
 OECD – Organization for Economic Co-operation and Development; OPPTS – Office of Chemical Safety and Pollution Prevention; PBT – Persistent, Bioaccumulative and Toxic substance; PICCS – Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR – (Quantitative)
 Structure Activity Relationship; REACH – Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID – Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT – Self-Accelerating Decomposition Temperature; SDS – Safety Data Sheet; TCSI – Taiwan Chemical Substance Inventory; TRGS – Technical Rule for Hazardous Substances; TSCA – Toxic Substances Control Act (United States); UN – United Nations; vPvB – Very Persistent and Very Bioaccumulative

Prepared by : Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

## **ANNEX: EXPOSURE SCENARIOS**

#### **DPD+ Substances:**

The following substances are the lead substances that contribute to the mixture Exposure Scenario according to the DPD+ Rule:

Route	Substance	CAS-No.	EINECS-No.
Ingestion	sodium metabisulphite	7681-57-4	231-673-0
Inhalation	No lead substance		
Dermal	No lead substance		
Eyes	sodium metabisulphite	7681-57-4	231-673-0
aquatic environment	No lead substance		

## Physical properties DPD+ Substances:

Substance	Vapour pressure	Water solubility	Pow	Molar Mass
sodium metabisulphite				190.11 g/mol

To calculate if your downstream Operating Conditions and Risk management Measures are safe, please calculate your risk factor at the website below:

108365E 11 / 12

#### www.ecetoc.org/tra

Short title of Exposure

Scenario

: Laundry aid (non-gasing). Automatic process

**Use descriptors** 

Main User Groups : Industrial uses: Uses of substances as such or in preparations at

industrial sites

Sectors of end-use : SU3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Process categories : **PROC2:** Use in closed, continuous process with occasional

controlled exposure

**PROC8b:** Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

Product categories : **PC35:** Washing and cleaning products (including solvent based

products)

Environmental Release

Categories

: ERC4: Industrial use of processing aids in processes and

products, not becoming part of articles

108365E 12 / 12