

SECTION1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product code : B/W KIT INVERSIONE FISSAGGIO It 1
Trades code : B/W KITINV F

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

Photographic Process

Sectors of use:

Professional use[SU22]

Product category:

Photochemicals

Process categories:

Mixing or blending in batch processes for formulation of preparations* and articles (multistage and/or significant contact)[PROC5]

Uses advised against

Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone number

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SECTION2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

None

Hazard Class and Category Code(s):

Nonhazardous

Hazard statement Code(s):

Nonhazardous

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):

None

Hazard statement Code(s):

Nonhazardous

Supplemental Hazard statement Code(s):

EUH210 - Safety data sheet available on request.

Precautionary statements:

None in particular.

2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII
No information on other hazards

SECTION3. Composition/information on ingredients**3.1 Substances**

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
Ammonium hydrogensulphite	> 1 <= 5%	EUH031; Eye Irrit. 2, H319		10192-30-0	233-469-7	01-2119537 321-49-000 0

SECTION4. First aid measures**4.1. Description of first aid measures**

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area.
If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):.

Wash thoroughly with soap and running water.

Direct contact with eyes (of the pure product):.

Wash immediately and thoroughly with running water for at least 10 minutes.

Ingestion:

Not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine

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

No data available.

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

No data available.

SECTION5. Firefighting measures**5.1. Extinguishing media**

Advised extinguishing agents:

Water spray, CO₂, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction
You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)
Keep containers cool with water spray

SECTION6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

6.1.1 For non-emergency personnel:
Leave the area surrounding the spill or release. Do not smoke
Wear gloves and protective clothing
6.1.2 For emergency responders:
Eliminate all unguarded flames and possible sources of ignition. No smoking.
Provision of sufficient ventilation.
Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spill with earth or sand.
If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the the authorities.
Discharge the remains in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 For containment:
Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.
Prevent it from entering the sewer system.
6.3.2 For cleaning up:
After wiping up, wash with water the area and materials involved
6.3.3 Other information:
None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION7. Handling and storage**7.1. Precautions for safe handling**

Avoid contact and inhalation of vapors
At work do not eat or drink.
See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.
Keep containers upright and safe by avoiding the possibility of falls or collisions.
Store in a cool place, away from sources of heat and `direct exposure of sunlight.

7.3. Specific end use(s)

Professional use:
Photographic and cinematographic treatment

SECTION8. Exposure controls/personal protection**8.1. Control parameters**

Related to contained substances:
Ammonium hydrogensulphite:
AMMONIUM BISULFITE solution-CAS: 10192-30-0
ACGIH, 0.25 ppm-notes: (SO₂)
EU, 0.5 ppm, ppm-1 notes: (SO₂)
DNEL exposure limit values
AMMONIUM BISULFITE-CAS: 10192-30-0

Industrial worker: 10 mg/m³-Human Inhalation exposure-frequency: long-term, systemic effects

Consumer: 0.901 mg/kg Oral Human exposure-frequency: long-term, local effects

PNEC exposure limit values

AMMONIUM BISULFITE-CAS: 10192-30-0

Target: fresh water-value: 1.04 mg/l

Target: seawater-value: 0.1 mg/l

Target: Microorganisms in wastewater treatment-value: 78.6 mg/l

- Substance: Ammonium hydrogensulphite

DNEL

Systemic effects Long term Workers inhalation = 10 (mg/m³)

Local effects Long term Consumers oral = 0,901 (mg/kg bw/day)

PNEC

Sweet water = 1,04 (mg/l)

Sea water = 0,1 (mg/l)

8.2. Exposure controls

Appropriate engineering controls:

Professional use:

Not established

Individual protection measures:

(a) Eye / face protection

Not needed for normal use.

(b) Skin protection

(i) Hand protection

When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

(ii) Other

Wear normal work clothing.

(c) Respiratory protection

Not needed for normal use.

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Related to contained substances:

Ammonium hydrogensulphite:

Eye protection:

Use protective visors closed, do not use eye lenses.

Skin protection:

Wear clothing that guarantee full protection for the skin, eg. cotton, rubber, PVC or viton.

Protection of hands:

Use protective gloves that provide for full protection, eg. PVC, neoprene or rubber.

Respiratory protection:

Where ventilation is insufficient or exposure is prolonged use of a respiratory protective device, eg. CEN/FFP-2 (S) or CEN/FFP-3 (S).

Thermal Hazards:

no

Environmental exposure controls:

no



SECTION9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	Liquid	
Odour	Ammonia light	

Physical and chemical properties	Value	Determination method
Odour threshold	Irrilevant	
pH	6.30 ± 0.10	pH METRO
Melting point/freezing point	Irrilevant	
Initial boiling point and boiling range	> 100 °C	
Flash point	non flammable	ASTM D92
Evaporation rate	Irrilevant	
Flammability (solid, gas)	Irrilevant	
Upper/lower flammability or explosive limits	Irrilevant	
Vapour pressure	Irrilevant	
Vapour density	Irrilevant	
Relative density	1.280 ± 0.010 gr / dm ³	
Solubility	in water	
Water solubility	Complete	
Partition coefficient: n-octanol/water	Irrilevant	
Auto-ignition temperature	non flammable	
Decomposition temperature	Irrilevant	
Viscosity	Irrilevant	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

Related to contained substances:
Ammonium hydrogensulphite:
Stable under normal conditions.

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Nothing to report

10.5. Incompatible materials

It can generate inflammable gases to contact with elementary metals, nitrides, inorganic sulfide, strong reducing agents.

It can generate toxic gases to contact with inorganic sulfide, strong reducing agents.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION11. Toxicological information**11.1. Information on toxicological effects**

ATE(mix) oral = ∞

ATE(mix) dermal = ∞

ATE(mix) inhal = ∞

- (a) acute toxicity: based on available data, the classification criteria are not met.
- (b) skin corrosion/irritation based on available data, the classification criteria are not met.
- (c) serious eye damage/irritation: based on available data, the classification criteria are not met.
- (d) respiratory or skin sensitization: based on available data, the classification criteria are not met.
- (e) germ cell mutagenicity: based on available data, the classification criteria are not met.
- (f) carcinogenicity: based on available data, the classification criteria are not met.
- (g) reproductive toxicity: based on available data, the classification criteria are not met.
- (h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.
- (i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not met.
- (j) aspiration hazard: based on available data, the classification criteria are not met.

Health hazards:

Eye contact: accidental contact of the product with the eyes may cause irritation.

Contact with skin: the product is an irritant. Repeated or prolonged contact can degrease and irritate the skin and cause dermatitis in some cases.

Ingestion: ingestion can cause irritation of the mucous membranes of the throat and digestive system resulting in abnormal digestive symptoms and intestinal disorders.

Inhalation: prolonged exposure to vapours or mists of product may cause irritation to respiratory tract.

Related to contained substances:

Ammonium hydrogensulphite:

Toxicological information pertaining to the substance:

AMMONIUM BISULFITE solution-CAS: 10192-30-0

c) serious eye injuries/ocular severe irritation:

Test: corrosive to Positive eyes

The main impurities in substances: N.A.

Unless otherwise specified, the information required by regulation 453/2010/EC listed below are N.A.:

- a) acute toxic;
- b) corrosion/irritation;
- c) serious eye injuries/ocular severe irritation;
- (d) respiratory or skin sensitization);
- e) germ cell mutagenicit;
- f) cancerogenicit;
- g) toxic to reproduction;
- h) specific toxic to target organs (STOT) 14 single exposure;
- the) toxic to target organs (STOT) 14 repeated exposure;
- j) danger in case of aspiration.

SECTION12. Ecological information**12.1. Toxicity**

Related to contained substances:

Ammonium hydrogensulphite:

Follow good working practices, avoid dispersion into the environment.

Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

Related to contained substances:

Ammonium hydrogensulphite:

Non-persistent and biodegradable.

12.3. Bioaccumulative potential

Related to contained substances:
Ammonium hydrogensulphite:
No

12.4. Mobility in soil

Related to contained substances:
Ammonium hydrogensulphite:
No

12.5. Results of PBT and vPvB assessment

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

12.6. Other adverse effects

No adverse effects

SECTION13. Disposal considerations**13.1. Waste treatment methods**

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.
Recover if possible. Operate according to local or national regulations

SECTION14. Transport information**14.1. UN number**

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

It is not intended to carry bulk

SECTION15. Regulatory information

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

Related to contained substances:

Ammonium hydrogensulphite:

Legislative Decree No. 81 4/9/2008

D.m. 2/26/2004 Work (occupational exposure limits)

Regulation (EC) No 1907/2006 (REACH)

Regulation (EC) no 1272/2008 (CLP)

Regulation (EC) no 790/2009 (ATP 1 CLP) and (EC) no 758/2013

Commission Regulation (EU) 2015/830

Commission Regulation (EU) no 286/2011 (ATP 2 CLP)

Commission Regulation (EU) no 618/2012 (ATP 3 CLP)

Commission Regulation (EU) no 487/2013 (ATP 4 CLP)

Commission Regulation (EU) no 944/2013 (ATP 5 CLP)

Commission Regulation (EU) no 605/2014 (ATP 6 CLP)

Restrictions on product or substances in accordance with annex XVII of Council Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Product restrictions: Restriction 3

Substances restrictions: no restrictions.

Legislative Decree. 02/03/1997 n. 52 (Classification, packaging and labeling of dangerous substances). Legislative

Decree 14/03/2003 n. 65 (Classification, packaging and labeling of dangerous substances). Legislative Decree.

02/02/2002 n. 25 (Risks related to chemical agents at work). D.M. 26/02/2004 Work (Exposure Limits Professional);

D.M. 03/04/2007 (Implementation of Directive n. 2006/8 / EC). Regulation (EC) No. 1907/2006 (REACH), Regulation

(EC) No. 1272/2008 (CLP), Regulation (EC) 790 / 2009.D.Lgs. September 21, 2005 n. 238 (Seveso Ter).

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information**16.1. Other information**

Description of the hazard statements exposed to point 3

H319 = Causes serious eye irritation.

Classification based on data of all mixture components

Main normative references:

Directive 1999/45/EC

Directive 2001/60/EC

Regulation 1272/2008/EC

Regulation 2010/453/EC

Regolamento 529/2012 and subsequent updates

This data sheet cancels and replaces any previous edition.
