

SECTION1. Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product code : B/W SVILUPPO FILM HYDROFEN
Trades code : DRODBW

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:

GHS07, GHS08

Hazard Class and Category Code(s):

Skin Sens. 1B, Eye Irrit. 2, Muta. 2, Carc. 2

Hazard statement Code(s):

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H341 - Suspected of causing genetic defects

H351 - Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.

The product, if brought into contact with skin can cause skin sensitization.

The product is suspected of causing genetic defects

The product may pose a risk of carcinogenesis.

2.2. Label elements

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

Pictogram, Signal Word Code(s):

GHS07, GHS08 - Warning



Hazard statement Code(s):

- H317 - May cause an allergic skin reaction.
- H319 - Causes serious eye irritation.
- H341 - Suspected of causing genetic defects
- H351 - Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

Supplemental Hazard statement Code(s):

not applicable

Precautionary statements:

General

- P101 - If medical advice is needed, have product container or label at hand.
- P102 - Keep out of reach of children.

Prevention

- P201 - Obtain special instructions before use.
- P261 - Avoid breathing dust, fume, gas, mist, vapours, spray.
- P280 - Wear protective gloves protective clothing eye protection face protection.

Response

- P302+P352 - IF ON SKIN: Wash with plenty of water and seek medical advice.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 - IF exposed or concerned: Get medical advice/attention.
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 - If eye irritation persists: Get medical advice attention.
- P363 - Wash contaminated clothing before reuse.

Storage

- P405 - Store locked up.

Disposal

- P501 - Dispose of contents and container in accordance with the laws in force

Contains:

hydroquinone

2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII
RESTRICTED TO PROFESSIONAL USERS
 Packaging to be fitted with a tactile warning

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
hydroquinone	>= 1 < 3%	Acute Tox. 4, H302; Skin Sens. 1, H317; Eye Dam. 1, H318; Muta. 2, H341; Carc. 2, H351; Aquatic Acute 1, H400 Acute toxicity M-factor = 10	604-005-00-4	123-31-9	204-617-8	1-21195240 16-51
Edetic acid	>= 1 < 5%	Eye Irrit. 2, H319; Acute Tox. 4, H332; STOT RE 2, H373	607-429-00-8	60-00-4	200-449-4	01-2119486 399-18

SECTION 4. 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):

Take contaminated clothing Immediately off.

Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product.

In case of contact with skin, wash immediately with water.

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately

Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

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

IF exposed or concerned: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice attention.

If medical advice is needed, have product container or label at hand.

SECTION 5. 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

SECTION 6. 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 mask, 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:

Rapidly recover the product, wear a mask and protective clothing

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors

Wear protective gloves protective clothing eye protection face protection.

In residential areas do not use on large surfaces.

At work do not eat or drink.

Contaminated work clothing should not be allowed out of the workplace.

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

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Related to contained substances:

hydroquinone:

TLV: TWA 1 mg/m³ as A3 (carcinogen recognized for the animal with unknown relevance to humans); (ACGIH 2004).

MAK: skin absorption (H); Carcinogenicity class: 2; Group mutagen to germ cells: 3A; (DFG 2004).

Edetic acid:

For this material have not been established exposure limits.

- Substance: hydroquinone

DNEL

Systemic effects Long term Workers inhalation = 7 (mg/m³)

Systemic effects Long term Workers dermal = 128 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 1,74 (mg/m³)

Systemic effects Long term Consumers dermal = 64 (mg/kg bw/day)

Local effects Long term Workers inhalation = 1 (mg/m³)

Local effects Long term Consumers inhalation = 0,5 (mg/m³)

PNEC

Sweet water = 0,000114 (mg/l)

sediment Sweet water = 0,00098 (mg/kg/sediment)

Sea water = 0,000114 (mg/l)

sediment Sea water = 0,000097 (mg/kg/sediment)

intermittent emissions = 0,00134 (mg/l)

STP = 0,000129 (mg/l)

- Substance: Edetic acid

DNEL

Systemic effects Long term Consumers inhalation = 1,5 (mg/m³)

Systemic effects Long term Consumers oral = 25 (mg/kg bw/day)

Systemic effects Short term Workers inhalation = 2,5 (mg/m³)

Local effects Short term Workers inhalation = 2,5 (mg/m³)

8.2. Exposure controls



Appropriate engineering controls:

Professional use:

Not established

Individual protection measures:

(a) Eye / face protection

When handling the pure product use safety glasses (spectacles cage) (EN 166).

(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

When handling the pure product wear full protective skin clothing.

(c) Respiratory protection

Not needed for normal use.

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Related to contained substances:

hydroquinone:

Do not let this chemical contaminates the environment.

Edetic acid:

Do not breathe dust. Avoid contact with skin.

SECTION9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	Liquid	
Colour	Not determined	
Odour	undefined	
Odour threshold	Not determined	
pH	10.40 ± 0.10 a 25 °C	pH METRO
Melting point/freezing point	Irrilevant	
Initial boiling point and boiling range	Irrilevant	
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	1.200 ± 0.10 Kg/dm ³ a 25 °C	

Physical and chemical properties	Value	Determination method
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.

SECTION10. Stability and reactivity**10.1. Reactivity**

Related to contained substances:

hydroquinone:

Not known

Edetic acid:

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

Related to contained substances:

hydroquinone:

It oxidizes easily in air. Keep in a place sheltered from light.

Edetic acid:

Reactions with strong oxidizing agents.

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 = 12.269,9 mg/kg

ATE(mix) dermal = ∞

ATE(mix) inhal = ∞

(a) acute toxicity: based on available data, the classification criteria are not met.

(b) skin corrosion/irritation Edetic acid: Contact with eyes: corrosive action on contact with the eyes and can cause

severe burns and deep ulcerations that can leave scars.

Edetic acid: Skin contact: may cause slight irritation

(c) serious eye damage/irritation: If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.

Edetic acid: The seriousness of the injury depends on the concentration of the product, by time and temperature.

hydroquinone: Strong irritant with risk of serious damage to eyes.

(d) respiratory or skin sensitization: The product, if brought into contact with skin can cause skin sensitization.

hydroquinone: May cause sensitization by skin contact.

Edetic acid: Sensitization: not reported evidence of this effect..

(e) germ cell mutagenicity: The product is suspected of causing genetic defects

hydroquinone: Muta. 2,

Edetic acid: Mutagenesis: the concentration which can produce mutagenic effects strongly elevated. On the basis of the limited mutagenicity found in animals, the risk of genetic damage on 19uomo considered insignificant.

(f) carcinogenicity: The product may pose a risk of carcinogenesis.

hydroquinone: CARC. 2

Edetic acid: Carcinogenicity: not reported evidence of such an effect.

(g) reproductive toxicity: Edetic acid: Reproduction effects: not reported evidence of such an effect.

(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: Edetic acid: Inhalation: causes irritation to the respiratory tract.

Related to contained substances:

hydroquinone:

LD50 (rat) Oral (mg/kg body weight) = 375

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

Edetic acid:

Routes of entry: inhalation, ingestion, contact.

Ingestion: causes irritation to the mouth, throat, stomach and gastrointestinal problems.

LD50 (rat) Oral (mg/kg body weight) = 4500

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 3000

11.2. Information on other hazards

No data available.

SECTION 12. Ecological information

12.1. Toxicity

Related to contained substances:

hydroquinone:

LC-50 (fish, 96 h): 0638 mg/l

EC-50 (daphnide, 48 h): 0134 mg/l

Aquatic invertebrates: NOEC (daphnide, 21 d): 0.0057 mg/l

Toxicity to aquatic plants EC-50 (seaweed, 72 h): 0.33 mg/l

NOEC: (seaweed, 72 h): 0.019 mg/l

Acute toxicity M-factor = 10

Edetic acid:

Toxicity to fish (lc50): > 100 mg/l

Toxicity to Daphnia (Ec50): > 100 mg/l

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

12.2. Persistence and degradability

Related to contained substances:

hydroquinone:

There are no more information.

Edetic acid:

Not readily biodegradable.

12.3. Bioaccumulative potential

Related to contained substances:

hydroquinone:

No data available.

Edetic acid:

Bioconcentration factor: ca. 1.8 (28 d), lepomis macrochirus

The modest accumulation in organisms. The product was tested. The signs are derived by substances/products of similar composition or structure.

12.4. Mobility in soil

Related to contained substances:

hydroquinone:

No data available. Ecotoxicological effects:

Comments: very toxic to fish.

Further guidance on environmental matters:

Do not enter or ground water, water course or sewage system.

Toxic to fish and plankton.

Very toxic to aquatic organisms

Pericolosità for class 3 waters (D) very dangerous (assessment):

Danger to drinking water if even extremely small quantities leak into soil

Edetic acid:

The substance will evaporate into the atmosphere from the surface of the water.

Unpredictable absorption to the soil solid phase.

12.5. Results of PBT and vPvB assessment

No PBT/vPvB ingredient is present

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No adverse effects

SECTION 13. 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. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

SECTION 14. Transport information**14.1. UN number**

ADR/RID/IMDG/ICAO-IATA: 2810

If subject to the following characteristics is ADR exempt:

Combination packagings: per inner packaging 5 L per package 30 Kg

Inner packagings placed in shrink-wrapped or stretch-wrapped trays: per inner packaging 5 L per package 20 Kg

14.2. UN proper shipping name

ADR/RID/IMDG: LIQUIDO ORGANICO TOSSICO, N.A.S. (idrochinone, 1-fenil-3-pirazolidone)

ADR/RID/IMDG: TOXIC LIQUID, ORGANIC, N.O.S. (hydroquinone, 1-phenyl-3-pyrazolidone)

ICAO-IATA: TOXIC LIQUID, ORGANIC, N.O.S. (hydroquinone, 1-phenyl-3-pyrazolidone)

14.3. Transport hazard class(es)

ADR/RID/IMDG/ICAO-IATA: Class : 6.1



ADR/RID/IMDG/ICAO-IATA: Label : 6.1
ADR: Tunnel restriction code : E
ADR/RID/IMDG/ICAO-IATA: Limited quantities : 5 L
IMDG - EmS : F-A, S-A

14.4. Packing group

ADR/RID/IMDG/ICAO-IATA: III

14.5. Environmental hazards

ADR/RID/ICAO-IATA: Product is not environmentally hazardous
IMDG: Marine polluting agent : Not

14.6. Special precautions for user

The transport must be carried out by authorised vehicles carrying dangerous goods in accordance with the requirements of the current edition of the agreement A.D.R. applicable national provisions.

The transport must be carried out in the original packaging and in packages that are made from materials resistant to the content and not likely to generate with this dangerous reactions. Employees to the loading and unloading of dangerous goods have received proper training on the risks presented by prepared and on possible procedures to be taken in the event of emergency situations

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

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).
REGULATION (EU) No 1357/2014 - waste:

HP7 - Carcinogenic
HP11 - Mutagenic
HP14 - Ecotoxic

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION16. Other information

16.1. Other information

Points modified compared to previous release: 2.2. Label elements, 2.3. Other hazards, 4.1. Description of first aid measures, 4.3. Indication of any immediate medical attention and special treatment needed, 8.1. Control parameters, 12.6. Endocrine disrupting properties, 14.1. UN number, 14.3. Transport hazard class(es)

Description of the hazard statements exposed to point 3

H302 = Harmful if swallowed.
H317 = May cause an allergic skin reaction.
H318 = Causes serious eye damage.
H341 = Suspected of causing genetic defects
H351 = Suspected of causing cancer .
H400 = Very toxic to aquatic life.
H319 = Causes serious eye irritation.
H332 = Harmful if inhaled.
H373 = May cause damage to organs through prolonged or repeated exposure
Classification based on data of all mixture components

Issued on 04/20/2011 - Rel. # 4 on 04/29/2021

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In conformity to Regulation (EU) 2020/878

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.

Geowin SDS rel. 10 - Use - Consumer - Professional