SAFETY DATA SHEET

(REACh regulation (EC) n° 1907/2006 - n° 2015/830)

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

1.1. Product identifier
Product name : 23914 - COLLE EN SPRAY
Product code : GRAV 056.

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

1.3. Details of the supplier of the safety data sheet
Registered company name : GRAVOTECH MARKING SAS.
Address : 56, avenue Jean Jaurès, 10600 La Chapelle Saint Luc, France.
Telephone : +33 (0)3 25 41 65 65. Fax : +33 (0)3 25 79 04 25.
e-mail : info@gravograph.fr
http://www.gravograph.com

1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
In compliance with EC regulation No. 1272/2008 and its amendments.
Aerosol, Category 1 (Aerosol 1, H222 - H229).
Skin irritation, Category 2 (Skin Irrit. 2, H315).
Eye irritation, Category 2 (Eye Irrit. 2, H319).
Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H336).
Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

2.2. Label elements
Mixture for aerosol application.
In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :

GHS02  GHS07

Signal Word :
DANGER

Product identifiers :
606-001-00-8 ACETONE
EC 931-254-9 HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE
EC 927-510-4 HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS
601-006-00-1 PENTANE
601-085-00-2 ISOPENTANE

Hazard statements :
H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.
Precautionary statements - General:
P102 Keep out of reach of children.

Precautionary statements - Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.

Precautionary statements - Storage:
P410 + P412 Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F.

Precautionary statements - Disposal:
P501 Dispose of contents/container at a disposal facility in accordance with local regulations.

2.3. Other hazards
The mixture does not contain substances classified as ‘Substances of Very High Concern’ (SVHC) >= 0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table
The mixture fulfills neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

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Made under licence of European Label System, Software of INFODYNE (http://www.infodyne.fr)
SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation:

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.
If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.
If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

In the event of splashes or contact with eyes:

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.
If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin:

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.
Watch out for any remaining product between skin and clothing, watches, shoes, etc.
If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing:

Do not give the patient anything orally.
Keep the person exposed at rest. Do not force vomiting.
Seek medical attention immediately, showing the label.
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
Exposure may cause myocardial irritability. Do not administer sympathomimetic medication without an absolute necessity.

SECTION 5: FIREFIGHTING MEASURES

- Flammable.
- Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media
- Keep packages near the fire cool, to prevent pressurised containers from bursting.

Suitable methods of extinction
- In the event of a fire, use:
  - sprayed water or water mist
  - foam
  - multipurpose ABC powder
  - BC powder
  - carbon dioxide (CO2)
  - water with AFFF (Aqueous Film Forming Foam) additive
- Prevent the effluent of fire-fighting measures from entering drains or waterways.

Unsuitable methods of extinction
- In the event of a fire, do not use:
  - water jet

5.2. Special hazards arising from the substance or mixture
- A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.
- Do not breathe in smoke.
- In the event of a fire, the following may be formed:
  - carbon monoxide (CO)
  - carbon dioxide (CO2)

5.3. Advice for firefighters
- Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
- Consult the safety measures listed under headings 7 and 8.
- For non first aid worker
  - Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.
  - Avoid inhaling the vapors.
  - Avoid any contact with the skin and eyes.
  - If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

For first aid worker
- First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions
- Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.
- Prevent any material from entering drains or waterways.
- If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures
- Use drums to dispose of collected waste in compliance with current regulations (see section 13).

6.3. Methods and material for containment and cleaning up
- Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections
- No data available.

SECTION 7: HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling
- Always wash hands after handling.
Remove and wash contaminated clothing before re-using.
Ensure that there is adequate ventilation, especially in confined areas.
Remove contaminated clothing and protective equipment before entering eating areas.

**Fire prevention:**
- Handle in well-ventilated areas.
- Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.
- Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.
- Do not spray on a naked flame or any incandescent material.
- Do not pierce or burn, even after use.
- Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.
- Keep packages tightly closed and away from sources of heat, sparks and naked flames.
- Do not use tools which may produce sparks. Do not smoke.
- Prevent access by unauthorised personnel.

**Recommended equipment and procedures:**
- For personal protection, see section 8.
- Observe precautions stated on label and also industrial safety regulations.
- Do not breathe in aerosols.
- Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.
- Provide vapor extraction at the emission source and also general ventilation of the premises.
- Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.
- In all cases, recover emissions at source.
- Avoid skin and eye contact with this mixture.
- Packages which have been opened must be reclosed carefully and stored in an upright position.

**Prohibited equipment and procedures:**
- No smoking, eating or drinking in areas where the mixture is used.
- Never open the packages under pressure.

**7.2. Conditions for safe storage, including any incompatibilities**
- No data available.

**Storage**
- Keep out of reach of children.
- Keep the container tightly closed in a dry, well-ventilated place.
- Keep away from all sources of ignition - do not smoke.
- Keep well away from all sources of ignition, heat and direct sunlight.
- The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.
- Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

**Packaging**
- Always keep in packaging made of an identical material to the original.

**7.3. Specific end use(s)**
- No data available.

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Occupational exposure limits:**

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<th>CAS</th>
<th>VME-mg/m3</th>
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<th>VLE-mg/m3</th>
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- **ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):**

<table>
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<tr>
<th>CAS</th>
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### SAFETY DATA SHEET (REGULATION (EC) n° 1907/2006 - REACH)

**Version 1.1 (06-02-2019) - Page 6/11**

#### 23914 - COLLE EN SPRAY - GRAV056

**SAFETY DATA SHEET (REGULATION (EC) n° 1907/2006 - REACH)**

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**- Germany - AGW (BAuA - TRGS 900, 29/01/2018):**

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**- Belgium (Arrêté du 09/03/2014, 2014):**

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**- Switzerland (SUVAPRO 2017):**

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<td>200 ppm</td>
<td>800 ppm</td>
<td>2800 mg/m³</td>
<td>B</td>
</tr>
</tbody>
</table>

**- UK / WEL (Workplace exposure limits, EH40/2005, 2011):**

<table>
<thead>
<tr>
<th>CAS</th>
<th>TWA :</th>
<th>STEL :</th>
<th>Ceiling :</th>
<th>Definition :</th>
<th>Criteria :</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td>500 ppm</td>
<td>1500 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE):

![Pictograms](https://example.com/pictograms.png)

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- **Eye / face protection**

  Avoid contact with eyes.

  Use eye protectors designed to protect against liquid splashes.

  Before handling, wear safety goggles with protective sides accordance with standard EN166.

  In the event of high danger, protect the face with a face shield.

  Prescription glasses are not considered as protection.

  Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

  Provide eyewash stations in facilities where the product is handled constantly.

- **Hand protection**

  Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

  Gloves must be selected according to the application and duration of use at the workstation.

  Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

  Type of gloves recommended:

  - laminated polymer
  
  Recommended properties:

  - Impervious gloves in accordance with standard EN374

- **Body protection**

  Avoid skin contact.

  Wear suitable protective clothing.

  Suitable type of protective clothing:

  In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

  In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

  Work clothing worn by personnel shall be laundered regularly.

  After contact with the product, all parts of the body that have been soiled must be washed.

- **Respiratory protection**

  Avoid breathing vapours.

  If the ventilation is insufficient, wear appropriate breathing apparatus.

  When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

  Type of FFP mask:

  Wear a disposable half-mask aerosol filter in accordance with standard EN149.

### SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

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

<table>
<thead>
<tr>
<th>Physical state :</th>
<th>Fluid liquid.</th>
</tr>
</thead>
</table>

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**Spray.**

**Colour:** Colourless.

**Odour:** Sweet.

### Important health, safety and environmental information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Vapour pressure (50°C)</td>
<td>Below 110 kPa (1.10 bar).</td>
</tr>
<tr>
<td>Density</td>
<td>0.71</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Insoluble.</td>
</tr>
<tr>
<td>% VOC</td>
<td>90</td>
</tr>
<tr>
<td>Chemical combustion heat</td>
<td>&gt;= 30 kJ/g.</td>
</tr>
</tbody>
</table>

### 9.2. Other information

No data available.

### SECTION 10 : STABILITY AND REACTIVITY

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

**10.4. Conditions to avoid**

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid:
- heating
- heat

**10.5. Incompatible materials**

No data available.

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form:
- carbon monoxide (CO)
- carbon dioxide (CO2)

### SECTION 11 : TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects**

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Splashes in the eyes may cause irritation and reversible damage.

Narcotic effects may occur, such as drowsiness, narcosis, decreased alertness, loss of reflexes, lack of coordination or dizziness.

Effects may also occur in the form of violent headaches or nausea, judgement disorder, giddiness, irritability, fatigue or memory disturbance.

**11.1.1. Substances**

No toxicological data available for the substances.

**11.1.2. Mixture**

No toxicological data available for the mixture.

### SECTION 12 : ECOLOGICAL INFORMATION

Harmful to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

**12.1. Toxicity**

**12.1.2. Mixtures**
No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

Biodegradability: no degradability data is available, the substance is considered as not degrading quickly.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws):

WGK 2: Hazardous for water.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.


08 04 09 * waste adhesives and sealants containing organic solvents or other dangerous substances
15 01 04 metallic packaging
16 05 04 * gases in pressure containers (including halons) containing dangerous substances

SECTION 14 : TRANSPORT INFORMATION


14.1. UN number

1950

14.2. UN proper shipping name

UN1950=AEROSOLS, flammable

14.3. Transport hazard class(es)

- Classification:

<table>
<thead>
<tr>
<th>ADR/RID</th>
<th>Class</th>
<th>Code</th>
<th>Pack gr.</th>
<th>Label</th>
<th>Ident.</th>
<th>LQ</th>
<th>Provis.</th>
<th>EQ</th>
<th>Cat.</th>
<th>Tunnel</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

14.4. Packing group

- 

14.5. Environmental hazards

- 

14.6. Special precautions for user

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23914 - COLLE EN SPRAY - GRAV056

SAFETY DATA SHEET (REGULATION (EC) n° 1907/2006 - REACH)

SECTION 15 : REGULATORY INFORMATION

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

- Classification and labelling information included in section 2:
  - The following regulations have been used:
    - Directive 75/324/CEE modified by directive 2013/10/UE
    - EU Regulation No. 1272/2008 amended by EU Regulation No. 2018/1480 (ATP 13)
  - Container information:
    - No data available.
  - Particular provisions:
    - No data available.
  - German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws):
    - WGK 2 : Hazardous for water.
  - Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704):
    - NFPA 704, Labelling: Health=2 Inflammability=1 Instability/Reactivity=1 Specific Risk=none

- Swiss ordinance on the incentive tax on volatile organic compounds:
  - 67-64-1 acétone
  - 78-78-4 2-méthylbutane (isopentane)
  - 110-54-3 hexane
  - 110-82-7 cyclohexane
  - 109-66-0 pentane
  - 75-28-5 2-méthylpropane (alcool isobutylique,isobutane)
  - 106-97-8 n-butane
  - 74-98-6 propane

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.
The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a
guarantee of the properties thereof.

**Wording of the phrases mentioned in section 3 :**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H220</td>
<td>Extremely flammable gas.</td>
</tr>
<tr>
<td>H224</td>
<td>Extremely flammable liquid and vapour.</td>
</tr>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapour.</td>
</tr>
<tr>
<td>H304</td>
<td>May be fatal if swallowed and enters airways.</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness.</td>
</tr>
<tr>
<td>H361f</td>
<td>Suspected of damaging fertility.</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure.</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life.</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>EUH066</td>
<td>Repeated exposure may cause skin dryness or cracking.</td>
</tr>
</tbody>
</table>

**Abbreviations :**

- CMR: Carcinogenic, mutagenic or reprotoxic.
- ADR: European agreement concerning the international carriage of dangerous goods by Road.
- IATA: International Air Transport Association.
- ICAO: International Civil Aviation Organisation
- RID: Regulations concerning the International carriage of Dangerous goods by rail.
- WGK: Wassergefahrungsklasse (Water Hazard Class).
- GHS02: Flame
- GHS07: Exclamation mark
- PBT: Persistent, bioaccumulable and toxic.
- vPvB: Very persistent, very bioaccumulable.
- SVHC: Substances of very high concern.