

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Version number 6.0

Revision: 02.06.2021

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

- **1.1 Product identifier**
- **Trade name:** Formic acid, 98 - 100%, for analysis, ExpertQ®, ACS, Reag. Ph Eur
- **Article number:** AC1085
- **CAS Number:**
64-18-6
- **EC number:**
200-579-1
- **Index number:**
607-001-00-0
- **Registration number** 01-2119491174-37-XXXX
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation:** Laboratory reagent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Scharlab, S.L.
C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa
08181 Sentmenat (Barcelona) SPAIN
Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65
email: scharlab@scharlab.com
Internet Web Site: www.scharlab.com
- **Regional representation:**
Scharlab, S.L.
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email: scharlab@scharlab.com
Internet Web Site: www.scharlab.com
- **Further information obtainable from:** technical department
- **1.4 Emergency telephone number:**
Please contact the regional Scharlab distributor/dealer in your country
During normal opening times: Scharlab, S.L. (+34) 93 715 18 11

SECTION 2: Hazards identification

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



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS06 skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

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GHS07

Acute Tox. 4 H302 Harmful if swallowed.

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

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS02



GHS05



GHS06

Signal word Danger**Hazard statements**

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H331 Toxic if inhaled.

H314 Causes severe skin burns and eye damage.

Precautionary statements

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.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****3.1 Chemical characterisation: Substances****CAS No. Description**

64-18-6 formic acid

Identification number(s)**EC number:** 200-579-1**Index number:** 607-001-00-0**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:** Immediately remove any clothing soiled by the product.**After inhalation:** In case of unconsciousness place patient stably in side position for transportation.**After skin contact:** Immediately wash with water and soap and rinse thoroughly.**After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

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- **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**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose 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 disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**

64-18-6 formic acidWEL Long-term value: 9.6 mg/m³, 5 ppm

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• DNELsDNEL worker, cronic. Acute local and systematic effects: Inhalative - 9.5 mg/m³DNEL consumer, acute. Local effects: Inhalative - 9.5 mg/m³DNEL consumer, acute. Systematic effects: Inhalative - 9.5 mg/m³DNEL consumer, prolonged. Local effects: Inhalative - 3 mg/m³DNEL consumer, prolonged. Systematic effects: Inhalative - 3 mg/m³DNEL worker, acute. Local effects: Inhalative - 19 mg/m³DNEL worker, acute. Systematic effects: Inhalative - 19 mg/m³**• PNECs**

PNEC (Fresh water): 2 mg/L

PNEC (Sea water): 0.2 mg/L

PNEC (Freshwater sediments): 13.4 mg/kg

PNEC (Seawater sediments): 1.34 mg/kg

PNEC (Soil): 1.5 mg/kg

PNEC (Periodic water release): 1 mg/L

PNEC (Residual water depuration system): 7.2 mg/kg

• Additional information: The lists valid during the making were used as basis.**• 8.2 Exposure controls****• Personal protective equipment:****• General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

• Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

• Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

• Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:

Tightly sealed goggles

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid
Colour: Colourless

· **Odour:** Acrid

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· Change in condition

Melting point/freezing point: -9 °C

Initial boiling point and boiling range: 107 °C

· **Flash point:** 48 °C

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:** 520 °C

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Not determined.

· **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

Lower: 14 Vol %

Upper: 33 Vol %

· **Vapour pressure at 20 °C:** 43 hPa

· **Density at 20 °C:** 1.19 g/cm³

· **Relative density:** Not determined.

· **Vapour density:** Not determined.

· **Evaporation rate:** Not determined.

· **Solubility in / Miscibility with water:**

Fully miscible.

· **Partition coefficient: n-octanol/water:** Not determined.

· Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

· **9.2 Other information** No further relevant information available.

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** No dangerous reactions known.

· **10.4 Conditions to avoid** No further relevant information available.

· **10.5 Incompatible materials:** No further relevant information available.

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- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
Harmful if swallowed.
Toxic if inhaled.
- **LD/LC50 values relevant for classification:**

Oral	LD50	730 mg/kg (rat)
Inhalative	LC50/4 h	7.85 mg/l (rat)
- **Primary irritant effect:**
- **Skin corrosion/irritation**
Skin - Rabbit
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**
Causes severe skin burns and eye damage.
- **Respiratory or skin sensitisation**
Sensitisation test - Guinea pig
Result: negative
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **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.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- **14.1 UN-Number**
ADR, IMDG, IATA UN1779
- **14.2 UN proper shipping name**
ADR 1779 FORMIC ACID
IMDG, IATA FORMIC ACID
- **14.3 Transport hazard class(es)**
ADR



- **Class** 8 Corrosive substances.
- **Label** 8+3

• **IMDG**



- **Class** 8 Corrosive substances.
- **Label** 8/3

• **IATA**



- **Class** 8 Corrosive substances.
- **Label** 8 (3)
- **14.4 Packing group** II
- **ADR, IMDG, IATA**
- **14.5 Environmental hazards:**
- **Marine pollutant:** No
- **14.6 Special precautions for user** Warning: Corrosive substances.
- **Hazard identification number (Kemler code):** 80
- **EMS Number:** F-A, S-B
- **Segregation groups** Acids
- **Stowage Category** A
- **Segregation Code** SG36 Stow "separated from" SGG18-alkalis.
SG49 Stow "separated from" SGG6-cyanides
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

• **Transport/Additional information:**

- **ADR**
- **Limited quantities (LQ)** 1L
- **Transport category** 2
- **Tunnel restriction code** D/E

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UN 1779 FORMIC ACID, 8 (3), II

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I -**
- **Seveso category**
H2 ACUTE TOXIC
P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 40
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
Substance is not listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Classification according to Regulation (EC) No 1272/2008**
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
- **Department issuing SDS:** product safety department
- **Contact:** msds@scharlab.com
- **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)
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
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Skin Corr. 1A: Skin corrosion/irritation – Category 1A

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Annex: Exposure scenario 1

- **1 - Short title of the exposure scenario**
- **Sector of Use**
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- **Process category** PROC15 Use as laboratory reagent
- **Environmental release category**
ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
- **Description of the activities / processes covered in the Exposure Scenario**
See section 1 of the annex to the Safety Data Sheet.
- **2 - Conditions of use**
- **Duration and frequency**
8hrs (full working shift).
5 workdays/week.
- **Environment** Indoor use
- **Physical parameters**
Vapor pressure: 4271 Pa
Process temperature: 20 °C
- **Physical state** Fluid
- **Concentration of the substance in the mixture**
It covers a percentage of substance in the product up to 100 %
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting worker exposure**
Avoid contact with eyes.
Avoid contact with the skin.
Observe instructions for use / storage.
- **Other operational conditions affecting consumer exposure** Keep out of the reach of children.
- **Other operational conditions affecting consumer exposure during the use of the product**
Not applicable.
- **Risk management measures**
Use in a ventilated with filtered air pressurized cabin. Effectiveness 90%
- **Worker protection**
- **Organisational protective measures**
Ensure operatives are trained to minimise exposures.
Clean equipment and the work area every day.
Keep good industrial hygiene.
Deploy only trained chemical workers.
The appropriate type of chemical protective glove has to be selected specifically, depending on the concentration and quantity of hazardous substances in the workplace.
The employer must also ensure that the required personal protective equipment is available and it is used as directed.
Handling procedures must be well documented.
Workers processes / areas identified risk should be trained to :
 - a) Avoid working without respiratory protection
 - b) To understand the corrosive properties of the substance with they work
 - c) Observe the safest procedures indicated by the employerEnsure that activities are executed by specialists or authorised personnel only.
- **Technical protective measures**
Minimization of manual phases.
Replace, if possible, manual processes by automated processes and / or closed. This would avoid irritating mists, sprays and splashes.
- **Personal protective measures**
Avoid contact with the skin.
Avoid contact with the eyes.
Tightly sealed goggles

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Face protection

Protective work clothing

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Measures for consumer protection

Ensure adequate labelling.

Keep locked up and out of the reach of children.

• Environmental protection measures**• Water**

Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required.

• Disposal measures

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

• Disposal procedures

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

• Waste type Partially emptied and uncleaned packaging**• 3 - Exposure estimation****• Worker (dermal)**

The exposure estimation was carried out in accordance with ECETOC TRA.

No significant dermal exposure

• Worker (inhalation)

The exposure estimation was carried out in accordance with ECETOC TRA.

PROC 15: 1.9177 mg/m³, RCR 0.202**• Consumer** Not relevant for this Exposure Scenario.**• 4 - Guidance for downstream users** No further relevant information available.

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Annex: Exposure scenario 2

- **1 - Short title of the exposure scenario** Laboratory use
- **Sector of Use**
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Process category** PROC15 Use as laboratory reagent
- **Environmental release category**
ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
- **Description of the activities / processes covered in the Exposure Scenario**
See section 1 of the annex to the Safety Data Sheet.
- **2 - Conditions of use**
- **Duration and frequency**
8hrs (full working shift).
5 workdays/week.
- **Physical parameters**
Vapor pressure: 4271 Pa
Process temperature: 20 °C
- **Physical state** Fluid
- **Concentration of the substance in the mixture**
It covers a percentage of substance in the product up to 100 %
- **Other operational conditions** Observe the general safety regulations when handling chemicals.
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting worker exposure**
Indoor application.
Avoid contact with the skin, eyes and clothing.
Avoid exposure - obtain special instructions before use.
Avoid direct contact with the chemical /product / preparation by organisational measures.
Gloves required during a shift
Respiratory protection is required in work areas with inadequate ventilation and during spraying application.
- **Other operational conditions affecting consumer exposure** Keep out of the reach of children.
- **Other operational conditions affecting consumer exposure during the use of the product**
Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures**
Deploy only trained chemical workers.
Ensure operatives are trained to minimise exposures.
The employer must also ensure that the required personal protective equipment is available and it is used as directed.
The appropriate type of chemical protective glove has to be selected specifically, depending on the concentration and quantity of hazardous substances in the workplace.
Workers processes / areas identified risk should be trained to :
 - a) Avoid working without respiratory protection
 - b) To understand the corrosive properties of the substance with they work
 - c) Observe the safest procedures indicated by the employerEnsure that activities are executed by specialists or authorised personnel only.
Keep good industrial hygiene.
Do not exceed normal working hours per worker.
- **Technical protective measures**
Minimization of manual phases.
Replace, if possible, manual processes by automated processes and / or closed. This would avoid irritating mists, sprays and splashes.
Avoid splashing.
Handle with care. Avoid jolting, friction and impact.

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Personal protective measures

Avoid contact with the skin.

Avoid contact with the eyes.

Tightly sealed goggles

Safety glasses

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Face protection

Protective work clothing

Measures for consumer protection

Ensure adequate labelling.

Keep locked up and out of the reach of children.

Environmental protection measures**Water**

Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required.

Disposal measures Ensure that waste is collected and contained.**Disposal procedures**

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

Waste type Partially emptied and uncleaned packaging**3 - Exposure estimation**

To estimate exposures in the workplace has been used ECETOC TRA tool unless otherwise indicated.

Worker (oral) No significant oral exposure**Worker (dermal)** No significant dermal exposure**Worker (inhalation)**PROC 15: 3.8354 mg/m³, RCR 0.4037

The exposure estimation was carried out in accordance with ECETOC TRA.

Consumer Not relevant for this Exposure Scenario.**4 - Guidance for downstream users**

Whether the downstream user uses the substance / the mixture within the scope of the Exposure Scenario can be determined by means of a technical assessment.