

1 Identification

Product identifier**Trade name:** Synergy DWS 310**Article number:** 17310-01**Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the substance / the preparation:

For industrial use only

Metalworking fluid concentrate

Details of the supplier of the safety data sheet**Manufacturer / Supplier:**

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2 Hazard(s) identification

OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

Causes skin irritation.

Causes serious eye irritation.

Label elements**GHS label elements** The product is classified and labeled according to 29 CFR 1910.1200 (OSHA Hazcom 2012).**Hazard pictograms**

GHS07

Signal word Warning**Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

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P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P337+P313 If eye irritation persists: Get medical advice/attention.

Other hazards None

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description:

Mixture of the substances listed below with nonhazardous additions.

Mixture of nitrogen-containing organic acids (salts) and inhibitors

Declarable components:

CAS no.

| | | |
|----------|---|---------|
| | Phosphoric acid esters, neutralized with alkanolamines* | >1-4.9% |
| | Carboxylic acids, neutralized with alkanolamines* | >1-4.9% |
| | Carboxylic acids, neutralized with alkanolamines* | >5-<15% |
| 102-71-6 | Triethanolamine | >1-4.9% |

Additional information:

The specific chemical identity and/or exact percentage concentration of proprietary components is withheld as a trade secret.

4 First-aid measures

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. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents: CO₂, extinguishing powder or water spray. Fight larger fires with water spray.

For safety reasons unsuitable extinguishing agents: Water with full jet

Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters

Protective equipment: No special measures required.

Additional information Cool endangered receptacles with water spray.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.

Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

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Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.

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.

7 Handling and storage

Handling:**Precautions for safe handling**

The product has been classified and marked in accordance with directives on hazardous materials.
Observe the general safety regulations when handling chemicals.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities**Storage:**

Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

Information about storage in one common storage facility:

Do not store together with oxidizing and acidic materials.

Further information about storage conditions:

Protect from heat and direct sunlight.
Minimum shelf life: In closed, original container, at least 24 months.
Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters**Components with limit values at the workplace:**

NIOSH Recommended exposure limit for Metalworking fluids: 0.5 mg/m³ (particulate)

102-71-6 Triethanolamine

| | |
|-------------|--|
| TLV (US) | Long-term value: 5 mg/m ³ |
| EL (Canada) | Long-term value: 5 mg/m ³ |
| EV (Canada) | Long-term value: 3.1 mg/m ³ , 0.5 ppm |
| TLV (USA) | Long-term value: 5 mg/m ³ |

Additional information: The lists that were valid during the creation were used as basis.

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.

Respiratory Protection: Not required.

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

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Material of gloves (recommended): Suitable protective gloves: Nitrile gloves, minimum thickness of 0.3 mm.**Breakthrough time of glove material:**

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

Eye protection (recommended):

Eye protector with side protection (framed eyeglasses) ANSI Z87.1 – 2010

Use of tight fitting goggles

Body protection (recommended): Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

| | |
|-----------------|-----------------|
| Form: | Fluid |
| Color: | Dark yellow |
| Odor: | neutral |
| Odor threshold: | Not determined. |

pH-value: 8.9 - 9.5 @ 5% in H₂O (DIN 51369 / ASTM D1287)

Change in condition:

| | |
|------------------------------|--|
| Melting point/Melting range: | Not applicable |
| Boiling point/Boiling range: | >100 °C (>212 °F) (DIN 51751 / ASTM D86) |

Flash point: Not applicable (contains water).

Evaporation rate: Not determined.

Flammability (solid, gaseous): Not applicable.

Explosion limits (@1013 mbar):

| | |
|--------|-----------------|
| Lower: | Not determined. |
| Upper: | Not determined. |

Oxidizing properties

Relative density: 1.003 @ 68°F (20°C) (DIN 51757 / ASTM D1217)

Vapor density: Not applicable.

Evaporation rate: Not determined.

Solubility in / Miscibility with

Water: Not determined.

Partition coefficient (n-octanol/water): Not determined.

Auto-ignition temperature: Product is not selfigniting.

Decomposition temperature: Not determined.

Viscosity

Kinematic at 40 °C (104 °F): 39 mm²/s (ISO 3104)

VOC content: Not determined.

Other information: none

10 Stability and reactivity

Reactivity None known if used as directed.

Chemical stability Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions Reacts with strong acids and oxidizing agents.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

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**Hazardous decomposition products
(in case of fire or oxidation):**

Carbon monoxide and carbon dioxide

Phosphorus compounds

Nitrogen oxides (NOx)

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

* pure substance

ATE (Acute Toxicity Estimate)

| | | |
|--------|------|------------------------|
| Oral | LD50 | >24,212 mg/kg (rat) |
| Dermal | LD50 | >15,754 mg/kg (rabbit) |

3811-73-2 Sodium omadine

| | | |
|------------|------|--------------------|
| Oral | LD50 | 750 mg/kg (rat) |
| Dermal | LD50 | 700 mg/kg (rabbit) |
| Inhalative | LD50 | 2.7 mg/L (rat) |

Primary irritant effect:

on the skin: Causes skin irritation.

on the eye: Irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

IARC (International Agency for Research on Cancer)

None of the ingredients is listed in groups 1, 2A, or 2B.

NTP (National Toxicology Program)

None of the ingredients are listed.

12 Ecological information

Toxicity

Aquatic toxicity:

* pure substance

3811-73-2 Sodium omadine

| | |
|----------|---|
| EC50/96h | 0.00264 mg/L (Oncorhynchus mykiss) (OECD 203) |
| EC50/48h | 0.0088 mg/L (Daphnia magna) (OECD 202) |
| EC50/72h | 0.0012 mg/L (Algae) (OECD 201) |

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

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Trade name: Synergy DWS 310**Other adverse effects** No further relevant information available.

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13 Disposal considerations

Waste treatment methods**Recommendation:**

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

Used containers**Recommendation:** Disposal must be made according to official regulations.

14 Transport information

UN-Number

DOT, IMDG, IATA

Not regulated

DOT, IMDG, IATA

Not regulated

DOT, IMDG, IATA

Hazard Classification:

Not regulated

DOT, IMDG, IATA

Not regulated

Environmental hazards**Marine pollutant (according to IMDG):** No**Special precautions for user**

Not applicable.

Transport/Additional information:

Not hazardous according to the above specifications.

IATA

IATA Dangerous Goods Regulation (DGR): latest edition

UN "Model Regulation":

Not regulated

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture:**SARA (Superfund Amendments and Reauthorization)****Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

This product does not contain a chemical that are listed in Section 313.

TSCA (Toxic Substances Control Act):

All ingredients are listed on the U.S. TSCA inventory or exempt from premanufacture notice requirements.

Carcinogenic categories:**EPA (Environmental Protection Agency)**

None of the ingredients are listed.

NIOSH-Carcinogen list

None of the ingredients are listed.

California SCAQMD Rule 1144: Not applicable.**GHS label elements** GHS label elements are issued under section 2.

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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.

H.R.2420 (RoHS):

This product fulfill the H.R.2420 requirements in that the EDEE Act regulated materials are absent or their concentrations are significantly below regulatory thresholds.

NFPA ratings (scale 0-4)



Health = 1
Fire = 1
Reactivity = 0

Department issuing SDS: Product Stewardship

Editor's notice:

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications have not the meaning of guarantees on properties.

Abbreviations and acronyms:

RoHS: Restriction of Hazardous Substances

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

ISO: International Organisation for Standardisation

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic chemicals

vPvB: very Persistent and very Bioaccumulative chemicals

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

ATE: Acute Toxicity Estimate

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

* Data compared to the previous version altered.

The asterisk (*) on the left side indicate the respective changes from the previous version.