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| <b>SAFETY DATA SHEET</b>   |  | Revision Date: 07/29/2020 |
|  |  | Print Date: 07/31/2020    |
|  |  | SDS Number: 000000273061  |
| Biosperse™ CX9071 MICROBIOCIDE<br>™ Trademark, Solenis or its subsidiaries or affiliates,<br>registered in various countries<br>879270 |  | Version: 1.3              |

## SECTION 1. IDENTIFICATION

### Product identifier

Trade name : Biosperse™ CX9071  
MICROBIOCIDE  
™ Trademark, Solenis or its subsidiaries or affiliates,  
registered in various countries

### Recommended use of the chemical and restrictions on use


|  |  |
|--|--|
| <b>Details of the supplier of the safety data sheet</b><br>Solenis LLC<br>500 Hercules Road<br>Wilmington, Delaware 19808<br>United States of America (USA)<br><br>RegulatoryRequestsNA@solenis.com<br>Solenis LLC | <b>Emergency telephone number</b><br>1-844-SOLENIS (844-765-3647)<br><br><b>Product Information</b><br>Contact your local Solenis representative |
|--|--|

## SECTION 2. HAZARDS IDENTIFICATION

### GHS classification in accordance with 29 CFR 1910.1200

Corrosive to metals : Category 1  
Acute toxicity (Inhalation) : Category 4  
Skin corrosion : Category 1  
Serious eye damage : Category 1


### GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H332 Harmful if inhaled.

Precautionary statements : **Prevention:**  
P234 Keep only in original container.

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P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/  
face protection.

**Response:**

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P363 Wash contaminated clothing before reuse.  
P390 Absorb spillage to prevent material damage.

**Storage:**

P405 Store locked up.  
P406 Store in corrosive resistant container with a resistant inner liner.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**


**Components**

| Chemical name           | CAS-No.      | Classification   | Concentration (%) |
|-------------------------|--------------|--|-------------------|
| Sodium N-bromosulfamate | 1004542-84-0 | Met. Corr. 1; H290<br>Acute Tox. 4; H302<br>Skin Corr. 1; H314<br>Eye Dam. 1; H318 | >= 20 - < 30      |
| sodium hydroxide        | 1310-73-2    | Met. Corr. 1; H290<br>Skin Corr. 1; H314<br>Eye Dam. 1; H318                       | >= 1.5 - < 5      |

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

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Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

- If inhaled : Move to fresh air.  
IF INHALED: Call a POISON CENTER/ doctor if you feel unwell.  
Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If on skin, rinse well with water.  
Wash contaminated clothing before re-use.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.
- If swallowed : Get medical attention immediately.  
Do NOT induce vomiting.  
Rinse mouth with water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Causes serious eye damage.  
Harmful if inhaled.  
Causes severe burns.  
Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:  
irritation (nose, throat, airways)  
Cough  
lung edema (fluid buildup in the lung tissue)  
Difficulty in breathing
- Notes to physician : No hazards which require special first aid measures.

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## SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Carbon dioxide (CO2)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet

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- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : corrosive vapors  
Sodium oxides  
toxic fumes
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
Comply with all applicable federal, state, and local regulations.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Avoid formation of aerosol.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Do not breathe vapours/dust.  
Do not smoke.  
When diluting, always add the product to water. Never add water to the product.  
Container hazardous when empty.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.

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- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.
- Recommended storage temperature : > 25 °F / > -4 °C
- Further information on storage stability : No decomposition if stored and applied as directed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters


| Components       | CAS-No.   | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis     |
|------------------|-----------|-------------------------------|--|-----------|
| sodium hydroxide | 1310-73-2 | C                             | 2 mg/m3  | ACGIH     |
|                  |           | C                             | 2 mg/m3  | NIOSH REL |
|                  |           | TWA                           | 2 mg/m3  | OSHA Z-1  |
|                  |           | C                             | 2 mg/m3  | OSHA P0   |

- Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

### Personal protective equipment

- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

Hand protection


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- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Safety glasses
- Skin and body protection : Wear as appropriate:  
Impervious clothing  
Chemical resistant apron  
Safety shoes  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Discard gloves that show tears, pinholes, or signs of wear.  
Wear resistant gloves (consult your safety equipment supplier).
- Hygiene measures : Wash hands before breaks and at the end of workday.  
When using do not eat or drink.  
Ensure that eyewash stations and safety showers are close to the workstation location.  
When using do not smoke.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : yellow, to, light orange
- Odour : mild, chlorine-like
- Odour Threshold : No data available
- pH : 12 - 13
- Melting point/freezing point : < 25 °F / < -4 °C
- Boiling point/boiling range : No data available
- Flash point : No data available
- Evaporation rate : No data available
- Flammability (solid, gas) : The product is not flammable.
- Self-ignition : No data available
- Upper explosion limit / Upper flammability limit : No data available
- Lower explosion limit / Lower flammability limit : No data available
- Vapour pressure : No data available


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| Relative vapour density                | : | No data available             |
| Relative density                       | : | No data available             |
| Density                                | : | 1.30 - 1.35 g/cm <sup>3</sup> |
| Solubility(ies)                        |   |                               |
| Water solubility                       | : | completely soluble            |
| Solubility in other solvents           | : | No data available             |
| Partition coefficient: n-octanol/water | : | No data available             |
| Decomposition temperature              | : | No data available             |
| Viscosity                              |   |                               |
| Viscosity, dynamic                     | : | No data available             |
| Viscosity, kinematic                   | : | 0.15 - 0.25 Stokes            |
| Oxidizing properties                   | : | No data available             |
| Metal corrosion rate                   | : | Corrosive to metals           |

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#### SECTION 10. STABILITY AND REACTIVITY

|                                    |   |   |
|------------------------------------|---|---|
| Reactivity                         | : | No decomposition if stored and applied as directed.   |
| Chemical stability                 | : | Stable under recommended storage conditions.  |
| Possibility of hazardous reactions | : | Product will not undergo hazardous polymerization.  |
| Conditions to avoid                | : | Exposure to sunlight.   |
| Incompatible materials             | : | Acids<br>halogenated hydrocarbons<br>Metals<br>organic nitro compounds<br>Strong oxidizing agents |
| Hazardous decomposition products   | : | corrosive vapors<br>Sodium oxides<br>toxic fumes  |

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## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Harmful if inhaled.

#### Product:

Acute inhalation toxicity : Assessment: The component/mixture is classified as acute inhalation toxicity, category 4.

Acute dermal toxicity : Assessment: The component/mixture is classified as acute dermal toxicity, category 5.

#### Components:

##### **Sodium N-bromosulfamate:**

Acute oral toxicity : Assessment: The component/mixture is classified as acute oral toxicity, category 4.

##### **sodium hydroxide:**

Acute oral toxicity : LD Lo (Rabbit): 500 mg/kg

### Skin corrosion/irritation

Causes severe burns.

#### Product:

Result : Corrosive to skin

Remarks : Causes severe skin burns and eye damage.  
The feeling of irritation or pain may be delayed.

#### Components:

##### **Sodium N-bromosulfamate:**

##### **sodium hydroxide:**

Result : Causes severe burns.

### Serious eye damage/eye irritation


Causes serious eye damage.

#### Product:

Result : Corrosive to eyes

Remarks : May cause irreversible eye damage.



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**Components:**

**Sodium N-bromosulfamate:**

Result : Corrosive to eyes

**sodium hydroxide:**

Result : Corrosive to eyes

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information**

**Product:**

Remarks : No data available

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Product:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9.35 mg/l  
 End point: mortality  
 Exposure time: 96 h  
 Method: OECD Test Guideline 203

NOEC (Pimephales promelas (fathead minnow)): 3.46 mg/l  
 End point: mortality  
 Exposure time: 96 h  
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3.83 mg/l  
 End point: Immobilization  
 Exposure time: 48 h  
 Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): 1.24 mg/l  
 End point: Immobilization  
 Exposure time: 48 h  
 Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum (green algae)): 13.4 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Method: OECD Test Guideline 201

NOEC (Selenastrum capricornutum (green algae)): 3.46 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Method: OECD Test Guideline 201

**Ecotoxicology Assessment**

Acute aquatic toxicity : Acute aquatic toxicity Category 2; Toxic to aquatic life.


Chronic aquatic toxicity : Not classified based on available information.

**Components:**

**sodium hydroxide:**

Toxicity to fish : LC 50 (Western mosquitofish (Gambusia affinis)): 125 mg/l  
 Exposure time: 96 h  
 Method: Static  
 Remarks: Mortality

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (Daphnia magna)): 34.59 - 47.13 mg/l  
 Exposure time: 48 h

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Remarks: Intoxication

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

**Product:**

Additional ecological information : No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.

Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

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**SECTION 14. TRANSPORT INFORMATION**

**International Regulations**

**IATA-DGR**

UN number : UN 1760  
Proper shipping name : Corrosive liquid, n.o.s. (BROMIDE SALT)  
Class : 8  
Packing group : III  
Packing instruction (cargo aircraft) : 856  
Packing instruction (passenger aircraft) : 852

**IMDG-Code**

UN number : UN 1760

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Proper shipping name : CORROSIVE LIQUID, N.O.S. (BROMIDE SALT)  
 Class : 8  
 Packing group : III  
 EmS Code : F-A, S-B  
 Marine pollutant : no

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations**

**49 CFR**

UN number : UN 1760  
 Proper shipping name : Corrosive liquids, n.o.s. (BROMIDE SALT)  
 Class : 8  
 Packing group : III  
 ERG Code : 154  
 Marine pollutant : no

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**SECTION 15. REGULATORY INFORMATION**

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

| Components       | CAS-No.   | Component RQ (lbs) | Calculated product RQ (lbs) |
|------------------|-----------|--------------------|-----------------------------|
| sodium hydroxide | 1310-73-2 | 1000               | 33333                       |

**SARA 304 Extremely Hazardous Substances Reportable Quantity**


This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Corrosive to metals  
 Acute toxicity (any route of exposure)  
 Skin corrosion or irritation  
 Serious eye damage or eye irritation

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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**California Prop. 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**The components of this product are reported in the following inventories:**

- TCSI : Not in compliance with the inventory
- TSCA : Exempt
- AICS : Not in compliance with the inventory
- DSL : Exempt
- ENCS : Not in compliance with the inventory
- KECI : Not in compliance with the inventory
- PICCS : Not in compliance with the inventory
- IECSC : Not in compliance with the inventory

**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

**Biocides**

EPA Reg. # 63838-5-74655

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Danger, Corrosive., Causes irreversible eye damage., Causes skin burns., Do not get in eyes, on skin or on clothing.

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**SECTION 16. OTHER INFORMATION**

**Further information**

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**Full text of H-Statements**

- H290 : May be corrosive to metals.
- H302 : Harmful if swallowed.
- H314 : Causes severe skin burns and eye damage.

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H318 : Causes serious eye damage.

**Full text of other abbreviations**

Acute Tox. : Acute toxicity  
 Eye Dam. : Serious eye damage  
 Met. Corr. : Corrosive to metals  
 Skin Corr. : Skin corrosion  
 ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
 NIOSH REL : USA. NIOSH Recommended Exposure Limits  
 OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants -  
 1910.1000  
 OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1  
 Limits for Air Contaminants  
 ACGIH / C : Ceiling limit  
 NIOSH REL / C : Ceiling value not be exceeded at any time.  
 OSHA P0 / C : Ceiling limit  
 OSHA Z-1 / TWA : 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Safety Data Sheet

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Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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