



Safety Data Sheet

According To Regulation (EC) No 1907/2006 (REACH)

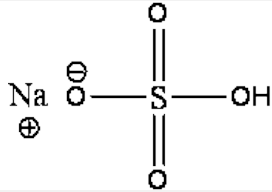
SODIUM BISULFATE

Version: 1.0
Form No: 522009

Print Date : 29.06.2015
Revision Date : 29.06.2015

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name	SODIUM BISULFATE
CAS No	7681-38-1
EINECS No	231-665-7
SDS No	522009
Substance Name	Sodium Bisulfate, Sodium Bisulphate, Sodium Hydrogen Sulfate
Molecular Formula	NaHSO ₄
Structural Formula	
Description	Substance - Inorganic

1.2 Relevant Identified Uses Of The Product And Uses Advised Against

Relevant Identified Uses	pH adjustment, cleaning compounds, metal cleaning, food preservatives and chemical industry
Uses Advised Against	No data available

2. HAZARDS IDENTIFICATION

2.1. Classification According to Regulation CLP (1272/2008/EC)

- Eye Damage, Category 1; H318

2.2. Label Elements

2.2.1. Labeling According to Regulation (EC) No 1272/2008 [CLP¹/GHS²]

Product Identifier

Hazard Component for Labeling

- Sodium hydrogensulphate

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Hazard Pictograms



Signal Word	DANGER	
Hazard Statement(s)	H318	Causes serious eye damage.
Supp. Statement(s)	No Data Available	
Precautionary Statement(s)	General	
	-	
	Prevention	
	P262	Do not get in eyes, on skin, or on clothing.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	Response	
	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.
	Storage	
	-	
	Disposal	
	-	

Supplemental Hazard Information (EU) Statements

No data available

2.3. Hazard Identification

- Physico-chemical hazards: No particular hazards known.
- Human health dangers: Frequent persistent contact with the eye irritation.
- Environmental hazards: No particular hazards known.

2.3.1. Skin Contact

- No particular hazards known.

2.3.2. Eye Contact

- Causes serious eye damage.

2.3.3. Ingestion

- No particular hazards known.

2.3.4. Inhalation

- No particular hazards known.

2.3.5. Long term effects

- No particular hazards known.

2.3.6. Adverse Environmental Effects

- No data

2.3.7. Physical and chemical hazards :

- No particular fire or explosion hazard

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2.4. Additional Information

- Caution - substance not yet tested completely
- Full text of H- and EUH-phrases: see section 16

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Hazardous ingredients

NAME	EINECS ³ No	CAS ⁴ No	CONTENT %	CLASSIFICATION
Sodium hydrogensulphate	231-665-7	7681-38-1	≥ 99	Eye Dam. 1; H318

3.2 Specific Concentration Limits, M-Factors, Notes

No data available

3.3 Additional information

Full text of H- and EUH-phrases: see section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 General information

- Show this safety data sheet to the doctor in attendance.
- All cases of eye contamination, persistent skin irritation and casualties who have swallowed this substance or been affected by breathing its vapors should be seen by a doctor.

4.1.2 Following inhalation

- Take off the patient to fresh air.
- If not breathing, administer artificial respiration.
- Get medical help.



4.1.3 Following skin contact

- Remove affected person from source of contamination
- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.



4.1.4 Following eye contact

- Wash out immediately with fresh running water at least for 15 minutes.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
- Seek medical attention in event of irritation.



4.1.5 Following ingestion

- Do not induce vomiting or give a liquid to an unconscious person.
- Rinse with water your mouth.
- Do not give anything to an unconscious person by mouth.
- Seek medical attention in event of irritation.



4.1.6 Self-protection of the first aider

- Protect skin and eyes.
- Wear protective cloths.

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4.1.7 Notes for the doctor

- Treat symptomatically.

4.2 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 General Information and Flammable Properties

- Noncombustible.
- Not considered a significant fire risk, however containers may burn.

5.2 Extinguishing media:

- Use dry chemical, alcohol resistant foam, CO₂, water spray or foam to extinguish the fire.
- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area

5.3 Special hazards arising from the product

- Sulphur oxides and sodium oxide can be released.

5.4 Advice for fire-fighters

- Avoid breathing fire vapors.
- Cool containers exposed to flames with water until well after the fire is out
- Fire-fighters should wear positive-pressure self-contained breathing apparatus (SCBA) and wear full protective clothing
- Use firefighting procedures suitable for surrounding area.
- Employ protective equipment commonly used in the event of fire.
- Avoid inhalation of fumes from residue.
- DO NOT approach containers suspected to be hot.

5.5 Additional information

- If involved in a fire, keep containers cool with water spray.
- If safe to do so, remove containers from path of fire. Consider evacuation.
- Contaminated fire-extinguishing water must be disposed of in accordance with the regulations issued by the appropriate local authorities

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- Wear suitable protective equipment to prevent contamination of personal clothing, skin and eye.
- Use special respiratory protection.
- Avoid breathing the vapors, fumes and gases.
- Breathing apparatus.
- See Section 8.

6.2 Environmental precautions

- Prevent the material from entering drains or water courses.
- Spillages or uncontrolled discharges into watercourses must be alerted to the Environmental Agency or other appropriate regulatory body.

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6.3 Methods and material for containment and cleaning up

6.3.1 For containment

Minor Spills:

- Clean up all spills immediately.
- Avoid contact with skin and eyes.
- Control personal contact by using protective equipment.
- Place in a suitable, labeled container for waste disposal.

Major Spills:

- CAUTION: Advise personnel in area.
- Alert Emergency Services and tell them location and nature of hazard.
- Control personal contact by wearing protective clothing.
- Prevent, by any means available, spillage from entering drains or water courses.
- IF WET: Vacuum/shovel up and place in labelled containers for disposal
- ALWAYS: Wash area down with large amounts of water and prevent runoff into drains.
- If contamination of drains or waterways occurs, advise Emergency Services.

6.3.2 For cleaning up

- Use inert material to absorb.
- Do not contaminate water sources or sewer

6.3.3 Other information

- Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

- Dispose of contaminated material as waste in accordance with section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

Personal preventions

- Avoid all personal contact, with clothing, skin and eyes.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- DO NOT enter confined spaces until atmosphere has been checked.
- DO NOT allow material to contact humans, exposed food or food utensils.
- Avoid contact with incompatible materials.
- When handlings, DO NOT eat, drink or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately. Launder contaminated clothing before re-use.
- Use good occupational work practice.
- Observe manufacturer's storing and handling recommendations.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

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Fire preventions

- See section 5

Dust generation preventions:

- Check the amounts in atmosphere where the people work in accordance with the professional exposure limits.

Environmental precautions:

- Ensure adequate ventilation.

7.1.2 Advice on general occupational hygiene

- Do not to eat, drink and smoke in work areas;
- Wash hands after use;
- Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

- Keep ignition source away.
- Consider storage in bunded areas – ensure storage areas are isolated from sources of community water (including storm water, ground water, lakes and streams).
- Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities
- Keep containers securely sealed when not in use.
- It is a hygroscopic substance.
- Store in securely sealed original containers.
- Containers which are opened must be carefully closed and kept upright to prevent spills.
- Store in a cool, dry area protected from environmental extremes.
- Store away from incompatible materials and foodstuff containers.
- Incompatibility: Store away from strong bases and strong acids.
- Protect containers against physical damage and check regularly for leaks.
- Observe manufacturer's storing and handling recommendations
- Take all precautions mentioned in this document.

7.3 Specific end uses

- See section 1.2

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Provide adequate general and local exhaust ventilation.

Maintain efficient ventilation / extraction using flameproof equipment where necessary.

While working in confined spaces, monitoring the concentration of airborne particles in the workplace atmosphere should be considered.

8.1.1 Occupational exposure limits

There is no known up-to-date occupational exposure limits.

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

- Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.
- Well-designed engineering controls can be highly effective in protecting workers and will

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typically be independent of worker interactions to provide this high level of protection.

- The basic types of engineering controls are:
- Process controls which involve changing the way a job activity or process is done to reduce the risk.
- Enclosure and/or isolation of emission source which keeps a selected hazard “physically” away from the worker and ventilation that strategically “adds” and “removes” air in the work environment.
- Ventilation can remove or dilute an air contaminant if designed properly.
- The design of a ventilation system must match the particular process and chemical or contaminant in use.
- Employers may need to use multiple types of controls to prevent employee overexposure.
- Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction.

8.2.2 Personal protection equipment

8.2.2.1 Eye / Face protection:

- Use safety glasses with side shield NIOSH (US) or (EU/EN166 or national equivalent).
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

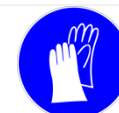


8.2.2.2 Skin protection

Hand protection

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: such as:

- frequency and duration of contact,
- chemical resistance of glove material,
- glove thickness and
- dexterity



Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739).

- When prolonged or frequently repeated contact may occur, a glove with a protection (nitrile rubber, breakthrough time greater than 480 minutes, Minimum layer thickness 0,6 mm according to EN 374) is recommended.
- When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended.
- Contaminated gloves should be replaced.

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.

Gloves should be examined for wear and/ or degradation constantly.

- Nitrile rubber

Body protection

- Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves. Synthetic apron or Lab coat.
- Suitable protection of the body: Chemical resistant



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8.2.2.3 Respiratory protection

- Follow work practices that minimize dust generation.
- For some operations an approved dust respirator may be needed and worn.
- Respiratory protection: Use N100 type (US) or P3 (EN 143) type with respiratory cartridges and breathing apparatus off full face.
- Use a full-face respirator according to standards of NIOSH (US) or CEN (EU).



8.2.3 Environmental exposure controls

- Legislation for the protection of the environment must be met in full.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Important health, safety and environmental information

9.2 Appearance

Form/Physical state	Solid, Crystal
Color	Light yellow
Odor	Odorless

9.3 Safety relevant basic data

pH @ 20°C	1,0
Boiling point/range (°C) 101,3 kPa	No data available
Melting Range (°C)	~ 315
Flash Point (°C) closed cup	No data available
Lower Explosion Limit (as volume and in air)	No data available
Upper Explosion Limit (as volume and in air)	No data available
Ignition temperature (°C)	No data available
Decomposition Temperature (°C)	> 315
Vapour pressure (mbar) @ 20°C	No data available
Molecular Weight	No data available
Solubility in water (g/l) @ 25 °C	285 - Soluble
Density @ 20°C (g/cm³)	2,43
Specific Gravity (Water=1)	No data available
Oxidation Property	No data available
Viscosity @ 20°C (mPas)	No data available
Partition coefficient: n-octanol/water (log Pow)	No data available

Note : The above features was determined according to prescribed methods at the Classification, Packaging and Labeling of Hazardous Substances Regulation Section A-3 or a method comparable to the other.

10. STABILITY AND REACTIVITY

10.1 Reactivity : See section 7.2

10.2 Chemical stability

- Stable under normal conditions.

10.3 Possibility of hazardous reactions

- No data available

10.4 Conditions to avoid:

- Humidity and water vapor

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10.5 Incompatible materials:

- Strong bases and strong oxidizing materials

10.6 Hazardous decomposition products:

- Sulphur oxides and sodium oxide can be released.

10.7 Hazardous polymerization:

- No data available

11. TOXICOLOGICAL INFORMATION

11.1 General Information

- This section mainly for health professionals include occupational health and safety experts and created information to be used by toxicologists.
- No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.

11.2 Acute toxicity

- No data available

11.3 Skin corrosion/irritation and Eye damage/irritation:

Sodium hydrogensulphate [CAS#7681-38-1]:

- Skin (rabbit): No irritation effect (OECD guideline 404)
- Eye (rabbit): Causes serious eye damage. (OECD guideline 405)

11.4 CMR effects (Carcinogenicity) :

- Carcinogenicity: No data available

11.5 CMR⁵ effects (Mutagenicity and Toxicity for reproduction) :

- No data available as mutagenic or toxic for reproduction

11.6 Other Toxicological Effects:

Allergic Effects	Not known
Effects on Repeated Doses	None
Sensitization	None
Developmental Toxicity (Teratogenicity)	None
Fertility	None
Aspiration hazard	None

11.7 STOT⁶-single/repeated exposures:

STOT-single exposure	None
STOT-repeated exposure	None

11.8 Symptoms related to the physical, chemical and toxicological characteristics:

In case of inhalation	No particular hazards known.
In case of skin contact	No particular hazards known.
In case of eye contact	Causes serious eye damage.
In case of ingestion	No particular hazards known.

11.9 Additional Toxicological Information:

- Toxicological classifications are based on available knowledge and information

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- The special effects to health are considered by taking into account the information in section 3.

12. ECOLOGICAL INFORMATION

12.1 Eco toxicity:

- Toxicity to fish
 - LC50 - *Gambusia affinis* - No data available
- Toxicity to daphnia and other aquatic invertebrates.
 - EC50 - *Daphnia magna* - No data available
- Toxicity to bacteria
 - EC50- *Pseudomonas putida* - No data available

12.2 Photo degradation

No data available

12.3 Persistence and degradability:

No data available for biodegradable.
Do not allow the product to enter drainage system and do not direct to wastewater treatment plants.

12.4 Mobility

- No data available.
- | | |
|---|--------------------|
| Water threat class | No data available |
| Clean Water Impact | No data available |
| Known or predicted environmental distribution | No data available. |

12.5 Results of PBT⁷ and vPvB⁸ assessment

It has not shown to meet the PBT/vPvB criteria.

Persistence and degradability:

- | | |
|---|-------------------|
| Decomposition Potential of the products | No data available |
| The half-life of degradation | No data available |
| Potential degradation of product content in the evaluation of wastewater treatment plants | No data available |

Bioaccumulation Potential :

- | | |
|--|-------------------|
| Biological environment (biota) accumulation potential | No data available |
| Potential - nutrients pass through | No data available |
| Reference Values - Log K _{ow} , S _w and BCF ⁹ | No data available |

12.6 Additional information

- Do not allow to be released into the environment.
- See the sections 6, 7, 13, 14 and 15.

13. DISPOSAL CONSIDERATIONS

13.1 Product / Packaging disposal

Containers may still present a chemical hazard/ danger when empty.
Return to supplier for reuse/ recycling if possible.

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Otherwise:

- If container cannot be cleaned sufficiently well to ensure that residuals do not remain, disposal to landfill or incineration in accordance with all applicable government laws and regulations is recommended.
- Where possible retain label warnings and MSDS and observe all notices pertaining to the product.
- DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- Recycle wherever possible or consult manufacturer for recycling options.
- Disposal according to local authority regulations.
- Contact waste disposal services

13.2 Contaminated packaging

- If there is product residue in the emptied container, follow directions for handling on the container's label.
- Recycle following cleaning or dispose of at an authorized site.

13.3 Disposal Methods

- Dispose of chemicals waste or in accordance with local regulations.
- Follow all applicable local laws, rules and regulations regarding the proper disposal of this material.
- If this product has been altered or contaminated with other hazardous materials, appropriate waste analysis may be necessary to determine proper method for disposal.
- A qualified environmental professional should determine waste characterization, disposal and treatment methods for this material in accordance with applicable local regulations and requirements.

13.4 European Waste Catalogue

- The final classification has to be done together with the local waste disposal company / authority.

14. TRANSPORT INFORMATION

	ADR ¹⁰ /RID ¹¹	ADNR ¹²	IMDG ¹³	ICAO ¹⁴ /IATA ¹⁵
TRANSPORTATION	Road	River	Marine	Airways
PROPER SHIPPING NAME	Not classified as dangerous in the meaning of transport regulations			
UN/ID No.	-	-	-	-
SYMBOL	-	-	-	-
CLASS	-	-	-	-
PACKAGING GROUP	-	-	-	-
LABELLING NO	-	-	-	-
CLASSIFICATION CODE	-			
HAZARD NO (HIN NO)	-			
PASSENGER & CARGO AIRCRAFT MAXIMUM NET QUANTITY				-

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EmS			-	
MARINE Pollutant			NO	
Road Transport Notes: This product is NOT regulated as a hazardous material.				

15. REGULATORY INFORMATION

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

- “European Union – European Inventory of Existing Commercial Chemical Substances (EINECS)
- “European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures – Annex VI S)(English)”

15.1 Chemical Safety Assessment

15.1.1 HAZARD

CLP classification according to Annex VI of CLP (Regulation (EC) No 1272/2008)

- Causes serious eye damage.

15.1 Label Elements

- This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 and ISO 11014:2009. This product is classified according to GHS/CLP.
- System of specific information relating to Dangerous Preparations: 2001/58/EC as amended by 2001/58/EC and 2006/8/EC.

16.3 Revision Date, Version and SDS no

- Date : June 29th, 2015
- Version : 1.0/EN
- MSDS No : 522009

16.4 Reason of re-issue

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- First issue

16.5 Relevant , H- and EUH-phrases (number and full text):

H318 Causes serious eye damage.

16.6 Classification For Mixtures And Used Evaluation Method According To EC/1207/2008 [CLP]

Classification According To EC/1207/2008 [CLP]	Classification Procedure
- Eye Damage, Category 1 - Corrosive to metals, Category 1	Calculation Method

16.7 Key Literature References And Sources Data

- Safety Data Sheets for the product ingredients supplied by the manufacturers.
- ACTOR - U.S. EPA Aggregated Computational Toxicology Resource
- AGRITOX - Base de données sur les substances actives phytopharmaceutiques
- CCR - Canadian Categorization Results
- CESAR - Canada's Existing Substances Assessment Repository
- CHRIP - Information on Biodegradation and Bio concentration of the Existing Chemical Substances in the Chemical Risk information platform
- ECHA CHEM - European Chemicals Agency's Dissemination portal with information on chemical substances registered under REACH
- ENVICHEM - Data Bank of Environmental Properties of Chemicals
- ESIS - European Chemical Substances Information System)
- GHS-J - The Result of the GHS Classification by the Japanese Government
- HPVIS - High Production Volume Information System (HPVIS)
- HSDB - Hazardous Substance Data Bank
- HSNO CCID - New Zealand Hazardous Substances and New Organisms Chemical Classification Information Database
- INCHEM - Chemical Safety Information from Intergovernmental Organizations J-CHECK - Japan Chemicals Collaborative Knowledge database
- JECDB - Japan Existing Chemical Data Base
- NICNAS PEC - Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS) Priority Existing Chemical Assessment Reports
- OECD HPV - Organisation for Economic Cooperation and Development (OECD) Existing Chemicals Database
- OECD SIDS IUCLID - OECD Existing Chemicals Screening Information Data Sets (SIDS) Database
- SIDS UNEP - OECD Initial Assessment Reports for HPV Chemicals including Screening Information Data Sets (SIDS) as maintained by United Nations Environment Programme (UNEP) Chemicals
- UK CCRMP Outputs - UK Coordinated Chemicals Risk Management Programme Publications
- US EPA IRIS - United States Environmental Protection Agency Integrated Risk Information System
- US EPA SRS - United States Environmental Protection Agency Substance Registry Services

16.8 Legal disclaimer

- The purpose of the above information is to describe the products only in terms of health and safety requirements.
- The information given should not, therefore, be construed as guaranteeing specific properties or as specification.
- Customers should satisfy themselves as to the suitability and completeness of such information for their own particular use.
- The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

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The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

- The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.*

¹ CLP: Classification Labelling and Packaging

² GHS: Global Harmonised System

³ EINECS : European Inventory of Existing Chemical Substances

⁴ CAS : Chemical Abstract Service

⁵ CMR: Carcinogenic, Mutagenic or Toxic to Reproduction (chemical safety classification)

⁶ STOT: Specific Target Organ Toxicity

⁷ PBT: Persistent Bioaccumulative Toxic

⁸ VPVB: Very Persistent, Very Bioaccumulative

⁹ BCF: Bioconcentration Factor

¹⁰ ADR: Accord Dangereux Routier (European regulations concerning the international transport of dangerous goods by road)

¹¹ RID: Regulations Concerning the International Transport of Dangerous Goods by Rail (European law)

¹² ADN: Regulation for the Carriage of Dangerous Substances on the Rhine (EU)

¹³ IMDG: International Maritime Dangerous Goods (United Nations)

¹⁴ ICAO: International Civil Aviation Organization

¹⁵ IATA: International Air Transport Association