

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/22/2014

Reviewed on 01/22/2014

1 Identification

· Product identifier

· Trade name: **Lettering Colours - Spray black and white**

· Article number: 11419

· Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

· Application of the substance / the mixture

Lacquer

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg

Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de

· Information department:

Laboratory

· Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.

2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Aerosol 1 H222 Extremely flammable aerosol.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Irritant

Irritating to eyes.



Extremely flammable

Extremely flammable.

Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

· Information concerning particular hazards for human and environment:

Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.

Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration.

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Warning! Pressurized container.

Has a narcotizing effect.

· Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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Label elements

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with directives on hazardous materials.

· Code letter and hazard designation of product:



Xi Irritant
F+ Extremely flammable

· Risk phrases:

Extremely flammable.
Irritating to eyes.
Repeated exposure may cause skin dryness or cracking
Vapours may cause drowsiness and dizziness

· Safety phrases:

Keep out of the reach of children.
Keep container in a well-ventilated place.
Keep away from sources of ignition - No smoking.
Do not breathe vapour/spray.
Avoid contact with skin and eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point
Take precautionary measures against static discharges.
Wear suitable protective clothing, gloves and eye/face protection.
In case of insufficient ventilation, wear suitable respiratory equipment.
If swallowed, seek medical advice immediately and show this container or label.
Use only in well-ventilated areas.

· Special labeling of certain preparations:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material.
Buildup of explosive mixtures possible without sufficient ventilation.

Classification system:

· NFPA ratings (scale 0 - 4)



Health = 1
Fire = 0
Reactivity = 3

· HMS-ratings (scale 0 - 4)



Health = 1
Fire = 0
Reactivity = 3

Other hazards

· Results of PBT and vPvB assessment

- PBT: Not applicable.
· vPvB: Not applicable.

3 Composition/information on ingredients**Chemical characterization: Mixtures**

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

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CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8	acetone ☒ Xi R36; ☒ F R11 R66-67 ☒ Flam. Liq. 2, H225; ☒ Eye Irrit. 2, H319; STOT SE 3, H336	25-50%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1	n-butyl acetate R10-66-67 ☒ Flam. Liq. 3, H226; ☒ STOT SE 3, H336	12.5-25%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane ☒ F+ R12 ☒ Flam. Gas 1, H220; Flam. Liq. 1, H224; Press. Gas, H280	12.5-25%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane ☒ F+ R12 ☒ Flam. Gas 1, H220; Flam. Liq. 1, H224; Press. Gas, H280	<12.5%
CAS: 9004-70-0 Index number: 603-037-00-6	Nitrozellulose mit mehr als 12,6% Stickstoff ☒ F R11 ☒ Flam. Liq. 1, H224	1-5%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0	isobutane ☒ F+ R12 ☒ Flam. Gas 1, H220; Press. Gas, H280	1-5%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0	propan-2-ol ☒ Xi R36; ☒ F R11 R67 ☒ Flam. Liq. 2, H225; ☒ Eye Irrit. 2, H319; STOT SE 3, H336	1-5%
CAS: 64742-94-5 EINECS: 265-198-5 Index number: 649-424-00-3	Solvent naphtha (petroleum), heavy arom. ☒ Xn R65 R66-67 ☒ Asp. Tox. 1, H304; ☒ STOT SE 3, H336	1-5%
CAS: 64742-95-6 EINECS: 265-199-0 Index number: 649-356-00-4	Solvent naphtha (petroleum), light arom. ☒ Xn R65; ☒ Xi R37; ☒ N R51/53 R10-66-67 ☒ Flam. Liq. 3, H226; ☒ Asp. Tox. 1, H304; ☒ STOT SE 3, H335-H336	<1%

· Additional information: For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

· Description of first aid measures

- General information: Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. Take affected persons out into the fresh air. Position and transport stably on side.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Clean with water and soap. If possible, also wash with polyethylene glycol 400. If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor. Do not induce vomiting; immediately call for medical help.
- Information for doctor: Symptoms in intoxication with (aromatic) hydrocarbons (dosis letalis about 30 g)
 - a) In acute intoxication: headache, dizziness, euphoria, gastro-intestinal dysfunction, state of excitement, coma.
 - b) In chronic intoxication: myelotoxic damage, fatigue, dizziness, emaciation, cardiac palpitation after physical exercise, leucopenia, anemia, leukosis.
 Therapy in hydrocarbons intoxication: In case of inhalation provision of fresh air; in case of peroral intake administration of Carbo medicinalis; only after

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<ul style="list-style-type: none"> · <u>Most important symptoms and effects, both acute and delayed</u> · <u>Danger</u> · <u>Indication of any immediate medical attention and special treatment needed</u> 	<p>intubation conduct of gastrolavage in application of Carbo medicinalis; in case of cramps administration of Diazepam 20 mg intravenously.</p> <p>Breathing difficulty Headache Dizziness Dizziness Coughing Profuse sweating Nausea Danger of impaired breathing.</p> <p>If swallowed, gastric irrigation with added, activated carbon. If swallowed or in case of vomiting, danger of entering the lungs.</p>
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5 Fire-fighting measures

<ul style="list-style-type: none"> · <u>Extinguishing media</u> · <u>Suitable extinguishing agents:</u> · <u>For safety reasons unsuitable extinguishing agents:</u> · <u>Special hazards arising from the substance or mixture</u> · <u>Advice for firefighters</u> · <u>Protective equipment:</u> · <u>Additional information</u> 	<p>CO2, sand, extinguishing powder. Do not use water.</p> <p>Water with full jet Water</p> <p>In case of fire, the following can be released: Carbon monoxide (CO) Nitrogen oxides (NOx) Formation of toxic gases is possible during heating or in case of fire. In certain fire conditions, traces of other toxic gases cannot be excluded.</p> <p>Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases. Wear fully protective suit.</p> <p>Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter the sewage system.</p>
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6 Accidental release measures

<ul style="list-style-type: none"> · <u>Personal precautions, protective equipment and emergency procedures</u> · <u>Environmental precautions:</u> · <u>Methods and material for containment and cleaning up:</u> 	<p>Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources Use respiratory protective device against the effects of fumes/dust/aerosol.</p> <p>Inform respective authorities in case of seepage into water course or sewage system. Prevent seepage into sewage system, workpits and cellars. In case of seepage into the ground inform responsible authorities. Do not allow to enter sewers/ surface or ground water.</p> <p>Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the collected material according to regulations. Do not flush with water or aqueous cleansing agents Ensure adequate ventilation. Dispose contaminated material as waste according to item 13.</p>
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· **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 Keep away from heat and direct sunlight.
 Ensure good ventilation/exhaustion at the workplace.
 Open and handle receptacle with care.
 Store in cool, dry place in tightly closed receptacles.
 Prevent formation of aerosols.
 Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
 Use only in well ventilated areas.

· Information about protection against explosions and fires: Fumes can combine with air to form an explosive mixture.
 Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 Wear shoes with conductive soles.
 Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.
 Do not spray on a naked flame or any incandescent material.

· **Conditions for safe storage, including any incompatibilities**
 · Storage:
 · Requirements to be met by storerooms and receptacles: Store in a cool location.
 Store only in the original receptacle.
 Prevent any seepage into the ground.
 Observe official regulations on storing packagings with pressurized containers.

· Information about storage in one common storage facility: Store away from oxidizing agents.
 Store away from foodstuffs.

· Further information about storage conditions: Do not gas tight seal receptacle.
 Store in cool, dry conditions in well sealed receptacles.
 Protect from heat and direct sunlight.
 Store receptacle in a well ventilated area.
 · **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 that require monitoring at the workplace:

67-64-1 acetone

PEL	Long-term value: 2400 mg/m ³ , 1000 ppm
REL	Long-term value: 590 mg/m ³ , 250 ppm
TLV	Short-term value: (1782) NIC-1187 mg/m ³ , (750) NIC-500 ppm
	Long-term value: (1188) NIC-475 mg/m ³ , (500) NIC-200 ppm
BEI	

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123-86-4 n-butyl acetatePEL Long-term value: 710 mg/m³, 150 ppmREL Short-term value: 950 mg/m³, 200 ppm
Long-term value: 710 mg/m³, 150 ppmTLV Short-term value: 950 mg/m³, 200 ppm
Long-term value: 713 mg/m³, 150 ppm**74-98-6 propane**PEL Long-term value: 1800 mg/m³, 1000 ppmREL Long-term value: 1800 mg/m³, 1000 ppm

TLV refer to Appendix F: minimal oxygen content

106-97-8 butaneREL Long-term value: 1900 mg/m³, 800 ppmTLV Short-term value: 2370 mg/m³, 1000 ppm**75-28-5 isobutane**TLV Short-term value: 2370 mg/m³, 1000 ppm**67-63-0 propan-2-ol**PEL Long-term value: 980 mg/m³, 400 ppmREL Short-term value: 1225 mg/m³, 500 ppm
Long-term value: 980 mg/m³, 400 ppmTLV Short-term value: 984 mg/m³, 400 ppm
Long-term value: 492 mg/m³, 200 ppm
BEI· Ingredients with biological limit values:**67-64-1 acetone**

BEI 50 mg/L

Medium: urine

Time: end of shift

Parameter: Acetone (nonspecific)

67-63-0 propan-2-ol

BEI 40 mg/L

Medium: urine

Time: end of shift at end of workweek

Parameter: Acetone (background, nonspecific)

· Additional information:

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

· **Exposure controls**· Personal protective equipment:· General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

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.

Do not inhale gases / fumes / aerosols.

Do not eat, drink, smoke or sniff while working.

Apply solvent resistant skin cream before beginning work.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Use suitable respiratory protective device in case of insufficient ventilation.

Filter AX

· Protection of hands:

Preventive skin protection by use of skin-protecting agents is recommended.

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After use of gloves apply skin-cleaning agents and skin cosmetics.
 Akemi skin protection agent recommendation for preventive skin shelter without use of protective gloves:
 STOKODERM (<http://www.stoko.com>)
 STOKO EMULSION (<http://www.stoko.com>)
 Akemi skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:
 STOKO EMULSION (<http://www.stoko.com>)
 Akemi skin protection recommendation for skin cleaning after product handling:
 SOLOPOL (<http://www.stoko.com>)
 SLIG SPEZIAL (<http://www.stoko.com>)
 Akemi skin protection agent recommendation for skin aftercare:
 STOKO VITAN (<http://www.stoko.com>)



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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

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

· Not suitable are gloves made of the following materials:

Strong gloves
 Leather gloves
 Natural rubber, NR

· Eye protection:



Tightly sealed goggles

· Body protection:

Protective work clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· General Information

· Appearance:

<u>Form:</u>	Aerosol
<u>Color:</u>	Different according to coloring
<u>Odor:</u>	Characteristic

· pH-value: Not applicable

· Change in condition

<u>Melting point/Melting range:</u>	Undetermined.
<u>Boiling point/Boiling range:</u>	Not applicable, as aerosol.

· Flash point: Not applicable, as aerosol.

· Ignition temperature: 365 °C (689 °F)

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· <u>Auto igniting:</u>	Product is not selfigniting.
· <u>Danger of explosion:</u>	In use, may form flammable/explosive vapour-air mixture.
· <u>Explosion limits:</u>	
<u>Lower:</u>	1.5 Vol %
<u>Upper:</u>	13.0 Vol %
· <u>Vapor pressure at 20 °C (68 °F):</u>	8300 hPa (6226 mm Hg)
· <u>Density at 20 °C (68 °F):</u>	0.78 g/cm ³ (6.509 lbs/gal)
· <u>Specific gravity at 20 °C (68 °F):</u>	0.78 g/cm ³ (6.509 lbs/gal)
· <u>Solubility in / Miscibility with</u>	
<u>Water:</u>	Not miscible or difficult to mix.
· <u>Viscosity:</u>	
<u>Dynamic:</u>	Not determined.
<u>Kinematic:</u>	Not determined.
· <u>Solvent content:</u>	
<u>Organic solvents:</u>	83.7 %
· <u>Other information</u>	No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information: Irritant
The product shows the following dangers according to internally approved calculation methods for preparations:

· Carcinogenic categories· IARC (International Agency for Research on Cancer)

67-63-0 | propan-2-ol

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· NTP (National Toxicology Program)

None of the ingredients is listed.

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*** 12 Ecological information**


- **Toxicity**
- Aquatic toxicity: No further relevant information available.
- **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 undiluted product or large quantities of it to reach ground water, water course or sewage system.
Water hazard class 1 (Self-assessment): slightly hazardous for water
- **Results of PBT and vPvB assessment**
- PBT: Not applicable.
- vPvB: Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- Recommendation: Disposal must be made according to official regulations. Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

*** 14 Transport information**

- **UN-Number**
- DOT, ADR, IMDG, IATA UN1950
- **UN proper shipping name**
- DOT Aerosols, flammable
- ADR 1950 Aerosols
- IMDG AEROSOLS
- IATA AEROSOLS, flammable
- **Transport hazard class(es)**
- DOT
- 
- Class 2.1
- Label 2.1

- ADR
- 
- Class 2 5F Gases

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· <u>Label</u>	2.1
· <u>IMDG, IATA</u>	
	
· <u>Class</u>	2.1
· <u>Label</u>	2.1
· Packing group	
· DOT, ADR, IMDG, IATA	Void
· Environmental hazards:	
· <u>Marine pollutant:</u>	No
· Special precautions for user	
· <u>Danger code (Kemler):</u>	Warning: Gases
· <u>EMS Number:</u>	-
	F-D,S-U
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
	Not applicable.
· UN "Model Regulation":	
	UN1950, Aerosols, 2.1

* **15 Regulatory information**

· Safety, health and environmental regulations/legislation specific for the substance or mixture	
· <u>Sara</u>	
· <u>Section 355 (extremely hazardous substances):</u>	
None of the ingredient is listed.	
· <u>Section 313 (Specific toxic chemical listings):</u>	
67-63-0	propan-2-ol
· <u>TSCA (Toxic Substances Control Act):</u>	
All ingredients are listed.	
· <u>Proposition 65</u>	
· <u>Chemicals known to cause cancer:</u>	
None of the ingredients is listed.	
· <u>Chemicals known to cause reproductive toxicity for females:</u>	
None of the ingredients is listed.	
· <u>Chemicals known to cause reproductive toxicity for males:</u>	
None of the ingredients is listed.	
· <u>Chemicals known to cause developmental toxicity:</u>	
None of the ingredients is listed.	
· <u>Carcinogenicity categories</u>	
· <u>EPA (Environmental Protection Agency)</u>	
67-64-1	acetone
	I
· <u>TLV (Threshold Limit Value established by ACGIH)</u>	
67-64-1	acetone
	A4
67-63-0	propan-2-ol
	A4
· <u>MAK (German Maximum Workplace Concentration)</u>	
None of the ingredients is listed.	

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· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

· Hazard symbols:



Xi Irritant
F+ Extremely flammable

· Risk phrases:

Extremely flammable.
Irritating to eyes.
Repeated exposure may cause skin dryness or cracking
Vapours may cause drowsiness and dizziness

· Safety phrases:

Keep out of the reach of children.
Keep container in a well-ventilated place.
Keep away from sources of ignition - No smoking.
Do not breathe vapour/spray.
Avoid contact with skin and eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point
Take precautionary measures against static discharges.
Wear suitable protective clothing, gloves and eye/face protection.
In case of insufficient ventilation, wear suitable respiratory equipment.
If swallowed, seek medical advice immediately and show this container or label.
Use only in well-ventilated areas.

· Special labeling of certain preparations:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material.
Buildup of explosive mixtures possible without sufficient ventilation.

· National regulations:

· Water hazard class:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

· VOC USA

387.2 g/l / 3.23 lb/gl

· **Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

* 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.

· **Department issuing MSDS:**

Laboratory

· **Contact:**

Elke Hake
Fon ++49 (0)911 64296-59
@mail E.Hake@akemi.de

· Date of preparation / last revision

01/22/2014 / -

· 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)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

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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
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)

USA