(Cont'd. on page 2)

Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: December 11, 2020

 Product identifier Trade name: Ammonium Persulfate, ACS Grade Product code: AR-1080-100 CAS Number: 7727-54-0 Recommended use: Laboratory chemicals Restrictions on use: No relevant information available. Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 800 Gitts Suppler of the Safety Data Sheet Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 800 Gitts Run Road Hanover, PA 17331 USA Tel +1 (17/1532-1291 Toll-Free: (860/632-1291 Toll-Free: (860/632	1 Identification
 Product code: AR-1060-100 CAS Number: 7727-54-0 Recommended use and restriction on use Recommended use: No relevant information available. Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 Inifo@aquaphoenixsci.com Distributor: Aqua Analytics 245 Matheson Blvd East Units 1 & 2, Mississauga, ON L4Z 3C9 (888) 712-4000 Emergency telephone number: Chem Tel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International) Z Hazard(s) identification Classification of the substance or mixture Ox. Sol. 3 H272 May intensify fire; oxidizer. Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes selicus eye irritation. Eye Irrit. 2A H319 Causes aelingy or asthma symptoms or breathing difficulties if inhaled. Skin Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335 May cause respiratory irritation. Eubel elements OHS Iabel elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms: CH503 GH507 GH508 	· Product identifier
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ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International) 2 Hazard(s) identification Classification of the substance or mixture Ox. Sol. 3 H272 May intensify fire; oxidizer. Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335 May cause respiratory irritation. Label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms: W GHS03 GHS07 GHS08	Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: Aqua Analytics 245 Matheson Blvd East Units 1 & 2, Mississauga, ON L4Z 3C9
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according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: December 11, 2020

Trade name: Ammonium Persulfate, ACS Grade (Cont'd. of page 1) · Hazard statements: H272 May intensify fire; oxidizer. H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. · Precautionary statements: P210 Keep away from heat. P220 Keep/Store away from clothing/combustible materials. P221 Take any precaution to avoid mixing with combustibles. P261 Avoid breathing dust. Wash thoroughly after handling. P264 Do not eat, drink or smoke when using this product. P270 Use only outdoors or in a well-ventilated area. P271 Contaminated work clothing must not be allowed out of the workplace. P272 P280 Wear protective gloves/protective clothing/eye protection. In case of inadequate ventilation wear respiratory protection. P285 P301+P312 If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. P330 P302+P352 If on skin: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor. P363 Wash contaminated clothing before reuse. P370+P378 In case of fire: Use for extinction: Water. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. • **Other hazards** There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

Chemical characterization: Substances

· CAS No. Description

7727-54-0 diammonium peroxodisulphate

4 First-aid measures

[•] Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

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according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: December 11, 2020

Trade name: Ammonium Persulfate, ACS Grade (Cont'd. of page 2) · After inhalation: Supply fresh air. Seek immediate medical advice. Provide oxygen treatment if affected person has difficulty breathing. If experiencing respiratory symptoms: Call a poison center/doctor. · After skin contact: Brush off loose particles from skin. Immediately rinse with water. If skin irritation or rash occurs: Get medical advice/attention. · After eve contact: Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. · Most important symptoms and effects, both acute and delayed: Asthma attacks Breathing difficulty Coughing Allergic reactions Irritating to eyes, respiratory system and skin. Gastric or intestinal disorders when indested. Nausea in case of ingestion. Danger: Danger of impaired breathing. Harmful if swallowed. May cause sensitization by inhalation and skin contact. Indication of any immediate medical attention and special treatment needed: Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible. Medical supervision for at least 48 hours. If necessary oxygen respiration treatment. Later observation for pneumonia and pulmonary edema. If medical advice is needed, have product container or label at hand. In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.

5 Fire-fighting measures

Extinguishing media

· Suitable extinguishing agents: Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: No relevant information available.
- · Special hazards arising from the substance or mixture

May intensify fire; oxidizer.

During heating or in case of fire poisonous gases are produced.

Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device. Wear fully protective suit.

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according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: December 11, 2020

Trade name: Ammonium Persulfate, ACS Grade

(Cont'd. of page 3)

6 Accidental release measures

[•] Personal precautions, protective equipment and emergency procedures

Isolate area and prevent access.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Take any precaution to avoid mixing with combustibles.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

Environmental precautions

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

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

Methods and material for containment and cleaning up

Sweep up and place into an appropriate container.

Send for recovery or disposal in suitable receptacles.

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:

Use only in well ventilated areas.

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly removed.

Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.

Information about protection against explosions and fires:

May intensify fire; oxidizer.

Substance/product can reduce the ignition temperature of flammable substances.

[•] Conditions for safe storage, including any incompatibilities

• Requirements to be met by storerooms and receptacles:

Avoid storage near extreme heat.

No special requirements.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from flammable substances.

Store away from reducing agents.

Do not store together with acids.

Further information about storage conditions:

Keep containers tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

• Specific end use(s) No relevant information available.

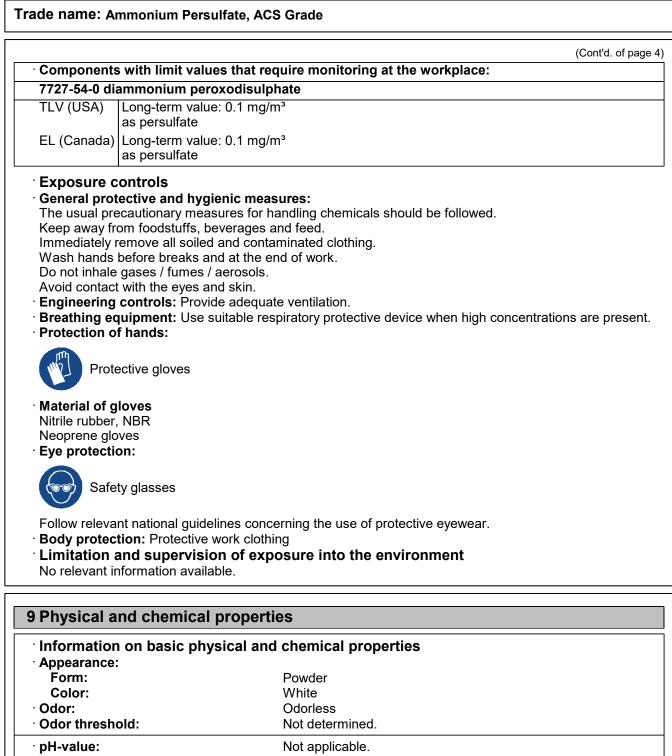
8 Exposure controls/personal protection

[·] Control parameters

(Cont'd. on page 5)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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· Melting point/Melting range: · Boiling point/Boiling range:	Not determined. Not determined.	
· Flash point:	The product is not flammable.	
		(Cont'd. on page 6)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: December 11, 2020

rade name: Ammonium Persulfate,	ACS Grade
	(Cont'd. of page
· Flammability (solid, gaseous):	Contact with combustible material may cause fire.
· Auto-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
 Oxidizing properties: 	Oxidizer
· Vapor pressure:	Not determined.
· Density:	
Relative density:	Not determined.
Vapor density:	Not applicable.
Evaporation rate:	Not applicable.
· Solubility in / Miscibility with	
Water:	Soluble.
· Partition coefficient (n-octanol/wa	ter): Not determined.
· Viscosity	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
• Other information	No relevant information available.
0 Stability and reactivity	
· Reactivity: No relevant information	n available.

· Chemical stability: Stable under normal temperatures and pressures.

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

Acts as an oxidizing agent on organic materials such as wood, paper and fats.

Reacts with reducing agents.

Reacts with strong acids.

Toxic fumes may be released if heated above the decomposition point.

Conditions to avoid No relevant information available.

Incompatible materials
 Flammable materials.

Acids.

Reducing agents.

[•] Hazardous decomposition products

Oxygen

Under fire conditions only: Sulfur oxides (SOx)

(Cont'd. on page 7)

Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: December 11, 2020

Trade name: Ammonium Persulfate, ACS Grade

(Cont'd. of page 6)

Information on toxicological effects Acute toxicity: Harmful if swallowed. LD/LC50 values that are relevant for classification: T727-54-0 diammonium peroxodisulphate Oral LD50 820 mg/kg (rat) Primary irritant effect: On the skin: Irritant to skin and nuccus membranes. On the skin: Irritant to skin and nuccus membranes. On the skin: Irritant to skin and nuccus membranes. On the skin: Irritant to skin and nuccus membranes. On the skin: Irritant to skin and nuccus membranes. On the skin: Irritant to skin and nuccus membranes. On the skin: Irritant to skin and nuccus membranes. On the skin: Irritant to skin and nuccus membranes. On the skin: Irritant to skin and nuccus membranes. On the skin: Irritant to skin and muccus membranes. On the skin: Irritant to skin and muccus membranes. On the skin: Irritant to skin and muccus membranes. On the skin: Irritant to skin and muccus membranes. OSHA-Ca (Occupational Safety & Research on Cancer): Substance is not listed. OSHA-Ca (Occupational Safety & Health Administration): Substance is not listed. OSHA-Ca (Occupational Safety & Health Administration): Substance is not listed. Orable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. Acute effects (acute toxicity, irritation and corrosivity): Irritating to eyes, respiratory system and skin. Harmful if swallowed. Repeated dose toxicity: May cause sensitization by inhalation and skin contact. Corrologenicity: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. Aquite toxicity No relevant information available. Persistence and degradability No relevant information available. Persistence and degradability No relevant information available. Ecotoxical effects: Ecotoxical effects: Ecotoxical effects: Ecotoxical effects: Ecotoxical effects: Ecotoxical effects: Corron effects: Corron of the information available. Corron of the information available. Coron allow undiluted product or large quantities of it to r	Тох	kicological information
LD/LC50 values that are relevant for classification: 7727-54-0 diammonium peroxodisulphate Oral LD50 820 mg/kg (rat) Primary irritant effect: Primary irritant of skin and mucous membranes. On the skin: Irritant to skin and mucous membranes. Sensitization: May cause sensitization by inhalation and skin contact. IARC (International Agency for Research on Cancer): Substance is not listed. OSHA-Ca (Occupational Safety & Health Administration): Substance is not listed. OSHA-Ca (Occupational Safety & Health Administration): Substance is not listed. Probable route(s) of exposure: Ingestion. Ingestion. Inhalation. Eye contact. Skin contact. Skin contact. Repeated dose toxicity: irritation and corrosivity): Irritating to eyes, respiratory system and skin. Intralit if swallowed. Repeated dose toxicity: May cause sensitization by inhalation and skin contact. Germ cell mutagenicity: Based on available data, the classification criteria are not met. STOT-repeated exposure: May cause respiratory irritation. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. Aguita toxicity No relevant information available. Perobat		
7727-54-0 diammonium peroxodisulphate Oral [LD50] 820 mg/kg (rat) Primary irritant effect: On the skin: Irritant to skin and mucous membranes. On the eye: Causes eye irritation. Sensitization: May cause sensitization by inhalation and skin contact. IARC (International Agency for Research on Cancer): Substance is not listed. NTP (National Toxicology Program): Substance is not listed. OSHA-Ca (Occupational Safety & Health Administration): Substance is not listed. Probable route(s) of exposure: Inhalation. Eye contact. Skin contact. Acute effects (acute toxicity, irritation and corrosivity): Irritating to eyes, respiratory system and skin. Harmful if swallowed. Repeated dose toxicity: May cause sensitization by inhalation and skin contact. Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. Appiration hazard: Based on available data, the classification criteria are not met.		•
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 Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Acute effects (acute toxicity, irritation and corrosivity): Irritating to eyes, respiratory system and skin. Harmful if swallowed. Repeated dose toxicity: May cause sensitization by inhalation and skin contact. 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: May cause respiratory irritation. 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. Aspiration hazard: Based on available data, the classification criteria are not met. Aspiration hazard: Based on available data, the classification criteria are not met. Aguitic toxicity No relevant information available. Persistence and degradability No relevant information available. Bioaccumulative potential: No relevant information available. Bioaccumulative for fish Additional ecological information General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewa system. 		
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 Toxicity Aquatic toxicity No relevant information available. Persistence and degradability No relevant information available. Bioaccumulative potential: No relevant information available. Mobility in soil: No relevant information available. Ecotoxical effects: Remark: Very toxic for fish Additional ecological information General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewa system. 	Inha Eye Skir • Acu Irrita Harr • Rep • Ger • Care • STC • STC	 Itation. contact. a contact. te effects (acute toxicity, irritation and corrosivity): ating to eyes, respiratory system and skin. mful if swallowed. eated dose toxicity: May cause sensitization by inhalation and skin contact. m cell mutagenicity: Based on available data, the classification criteria are not met. cinogenicity: Based on available data, the classification criteria are not met. oroductive toxicity: Based on available data, the classification criteria are not met. OT-single exposure: May cause respiratory irritation. OT-repeated exposure: Based on available data, the classification criteria are not met.
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system.	· Aqu · Per · Bioa · Mot · Ecc · Ren · Adc · Gen	atic toxicity No relevant information available. sistence and degradability No relevant information available. accumulative potential: No relevant information available. bility in soil: No relevant information available. bitoxical effects: hark: Very toxic for fish ditional ecological information heral notes:
		em.

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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Trade name: Ammonium Persulfate, ACS Grade

Very toxic for aquatic organisms

Other adverse effects No relevant information available.

13 Disposal considerations

[•] Waste treatment methods

· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

[·] Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number	
DOT, ADR/RID/ADN, IMDG, IATA	UN1444
UN proper shipping name	
DOT	Ammonium persulfate
ADR/RID/ADN	AMMONIUM PERSULPHATE, ENVIRONMENTALI HAZARDOUS
IMDG, IATA	AMMONIUM PERSULPHATE
Transport hazard class(es)	
DOT	
Class	5.1
Label	5.1
ADR/RID/ADN	
Class	5.1 (O2)
Label	5.1
IMDG, IATA	
Class	5.1

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Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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Trade name: Ammonium	Persulfate,	ACS Grade
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		(Cont'd. of page 8)
· Label	5.1	
 Packing group DOT, ADR/RID/ADN, IMDG, IATA 	III	
· Environmental hazards	Not applicable.	
 Special precautions for user Hazard identification number (Kemler code): EMS Number: Segregation groups 	Warning: Oxidizing substances 50 5.1-06 Ammonium compounds	
 Transport in bulk according to Annex II o MARPOL73/78 and the IBC Code 	f Not applicable.	

15 Regulatory information

m · Ur	afety, health and environmental regulations/legislation specific for the substance or ixture hited States (USA) ARA
· Se	ection 302 (extremely hazardous substances):
Su	ubstance is not listed.
· Se	ection 313 (Specific toxic chemical listings):
Su	ubstance is not listed.
·TS	SCA (Toxic Substances Control Act)
All	ingredients are listed or exempt.
· Pr	oposition 65 (California)
· Cł	nemicals known to cause cancer:
Su	ubstance is not listed.
· Cł	nemicals known to cause developmental toxicity for females:
Su	ubstance is not listed.
· Cł	nemicals known to cause developmental toxicity for males:
Su	ubstance is not listed.
· Cł	nemicals known to cause developmental toxicity:
Su	ubstance is not listed.
·EF	PA (Environmental Protection Agency):
Su	ubstance is not listed.
·IA	RC (International Agency for Research on Cancer):
Su	ubstance is not listed.
·Ca	anadian Domestic Substances List (DSL):
Su	ubstance is not listed.

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: December 11, 2020

Trade name: Ammonium Persulfate, ACS Grade

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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.

Abbreviations and acronyms:

ADR: 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Ox. Sol. 3: Oxidizing solids – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation - Category 1 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers