Safety Data Sheet
H69 VANTIX CLEAR UHS

Safety Data Sheet dated 2/1/2017, version 1

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade code and name: H69 VANTIX CLEAR UHS

Recommended use of the chemical and restrictions on use

Recommended use:

2K acrylic clearcoat.

Restrictions on use:

Only for professional use.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company:

Industria Chimica Reggiana I.C.R. Spa

Via Gasparini, 7 42124 REGGIO EMILIA Italia

Tel. +39 0522/517803 Fax +39 0522/514384

Competent person responsible for the safety data sheet:

sdsre@icrsprint.it

Emergency phone number

Via Gasparini, 7 42124 REGGIO EMILIA Italia

Tel. +39 0522/517803 Fax +39 0522/514384

2. HAZARD(S) IDENTIFICATION

Classification of the chemical

Warning, Flam. Liq. 3, Flammable liquid and vapour.

Warning, Skin Sens. 1, May cause an allergic skin reaction.

Warning, STOT SE 3, May cause drowsiness or dizziness.

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Label elements

Hazard pictograms:

Warning

Hazard statements:

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from open flames - No smoking.

P260 Do not breathe vapours or spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves and eye protection.

P312 Call a doctor if you feel unwell.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Special Provisions:

None

Contains

n-butyl acetate

2-hydroxyethyl methacrylate

Benzotriazol derivates

Naphtha

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

Hazards not otherwise classified identified during the classification process:

None

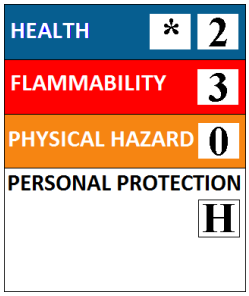
Ingredient(s) with unknown acute toxicity:

None.

Additional classification information

NFPA rating:

HMIS rating:



3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

>= 30% - < 40% n-butyl acetate
Index number: 607-025-00-1, CAS: 123-86-4, EC: 204-658-1
B.6/3 Flam. Liq. 3 H226
A.8/3 STOT SE 3 H336

>= 1% - < 3% Solvent naphtha (petroleum), light arom.
REACH No.: 01-2119455851-35, Index number: 649-356-00-4, CAS: 64742-95-6, EC: 265-199-0
B.6/3 Flam. Liq. 3 H226
A.8/3 STOT SE 3 H335
A.8/3 STOT SE 3 H336
US-HAE/C2 Aquatic Chronic 2 H411
A.10/1 Asp. Tox. 1 H304

>= 1% - < 3% 2-butoxyethyl acetate
REACH No.: 01-2119475112-47, Index number: 607-038-00-2, CAS: 112-07-2, EC: 203-933-3
A.1/4/Dermal Acute Tox. 4 H312
A.1/4/Inhal Acute Tox. 4 H332

>= 0.5% - < 1% Benzotriazol derivates - Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-
REACH No.: 01-0000015075-76, CAS: 104810-48-2
A.4.2/1 Skin Sens. 1 H317
US-HAE/C2 Aquatic Chronic 2 H411

>= 0.5% - < 1% Benzotriazol derivates - Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-
REACH No.: 01-0000015075-76, CAS: 104810-47-1
A.4.2/1 Skin Sens. 1 H317
US-HAE/C2 Aquatic Chronic 2 H411

>= 0.25% - < 0.5% Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate
REACH No.: 01-2119491304-40, CAS: 41556-26-7, EC: 255-437-1
A.4.2/1 Skin Sens. 1 H317
US-HAE/A1 Aquatic Acute 1 H400
US-HAE/C1 Aquatic Chronic 1 H410

>= 0.25% - < 0.5% isobutyl methacrylate
REACH No.: 01-2119488331-38, Index number: 607-113-00-X, CAS: 97-86-9, EC: 202-613-0
B.6/3 Flam. Liq. 3 H226
A.3/2A Eye Irrit. 2A H319
A.8/3 STOT SE 3 H335
A.2/2 Skin Irrit. 2 H315
A.4.2/1 Skin Sens. 1 H317
US-HAE/A1 Aquatic Acute 1 H400

>= 0.1% - < 0.25% 2-hydroxyethyl methacrylate
REACH No.: 01-2119490169-29, Index number: 607-124-00-X, CAS: 868-77-9, EC: 212-782-2
A.3/2A Eye Irrit. 2A H319
A.2/2 Skin Irrit. 2 H315
A.4.2/1 Skin Sens. 1 H317

4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Immediately take off all contaminated clothing.
Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. If irritation persists: Get medical advice/attention.
Wash thoroughly the body (shower or bath).
Remove contaminated clothing immediatley and dispose off safely.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

See section 11 for known symptoms and effects.

Indication of immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment:
None

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

CO2 or Dry chemical fire extinguisher.

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.
Burning produces heavy smoke. Carbon oxides.

Hazardous combustion products:

None

Explosive properties: N.D.
Oxidizing properties: N.D.

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Wear personal protection equipment.
Remove all sources of ignition.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Provide adequate ventilation.
Remove persons to safety.
Use appropriate respiratory protection.
See protective measures under point 7 and 8.

Methods and materials for containment and cleaning up

Wash with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhaltion of vapours and mists.
Do not use on extensive surface areas in premises where there are occupants.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Cool and adequately ventilated.
Storage temperature:
Store at ambient temperature.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

n-butyl acetate - CAS: 123-86-4

EU - TWA(8h): 713 mg/m3, 150 ppm - STEL(): 200 ppm
ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr

Solvent naphtha (petroleum), light arom. - CAS: 64742-95-6

EU - TWA(8h): 100 mg/m3, 19 ppm

2-butoxyethyl acetate - CAS: 112-07-2

EU - TWA(8h): 133 mg/m3, 20 ppm - STEL: 333 mg/m3, 50 ppm - Notes: Skin
ACGIH - TWA(8h): 20 ppm - Notes: A3 - Hemolysis

DNEL Exposure Limit Values

n-butyl acetate - CAS: 123-86-4

Consumer: 102.34 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
Worker Professional: 960 mg/m³ - Consumer: 859.7 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 960 mg/m³ - Consumer: 859.7 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Professional: 480 mg/m³ - Consumer: 102.34 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 480 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

2-butoxyethyl acetate - CAS: 112-07-2

Worker Professional: 133 mg/m³ - Consumer: 67 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 27 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects - Notes: bw/day
Consumer: 4.3 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: bw/day
Consumer: 18 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects - Notes: bw/day
Worker Professional: 773 mg/m³ - Consumer: 499 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 333 mg/m³ - Consumer: 166 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Professional: 102 mg/kg - Consumer: 36 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: bw/day

PNEC Exposure Limit Values

n-butyl acetate - CAS: 123-86-4

Target: STP - Value: 35.6 mg/l
Target: Fresh Water - Value: 0.18 mg/l
Target: Marine water - Value: 0.01 mg/l
Target: Intermittent emissions - Value: 0.36 mg/l
Target: Freshwater sediments - Value: 0.98 mg/kg
Target: Marine water sediments - Value: 0.09 mg/kg
Target: Soil - Value: 0.09 mg/kg

2-butoxyethyl acetate - CAS: 112-07-2

Target: Purification plant - Value: 90 mg/l
Target: Fresh Water - Value: 0.304 mg/l
Target: Marine water - Value: 0.0304 mg/l
Target: Intermittent emissions - Value: 0.56 mg/l
Target: Freshwater sediments - Value: 2.03 mg/kg

Target: Marine water sediments - Value: 0.203 mg/kg
Target: Soil - Value: 0.68 mg/kg
Target: Oral - Value: 0.06 g/kg

Appropriate engineering controls:
None

Individual protection measures

Eye protection:
Use close fitting safety goggles, don't use eye lens.

Protection for skin:
Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:
Use protective gloves that provides comprehensive protection, EN374 Class 3 (B-F-I). Permeation time > 60 minutes; 0.4 mm thickness.

Respiratory protection:
Use adequate protective respiratory equipment.

Thermal Hazards:
None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	Transparent colourless liquid
Odour:	Typical of solvent
Odour threshold:	N.D.
pH:	N.A.
Melting point / freezing point:	-58°F
Initial boiling point and boiling range:	260.6°F
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.D.
Vapour density:	5
Flash point:	80.6°F
Evaporation rate:	N.D.
Vapour pressure:	15 hPa
Relative density:	0,975 g/cm³
Solubility in water:	Insoluble
Solubility in oil:	N.D.
Auto-ignition temperature:	710.6°F
Decomposition temperature:	N.D.
Viscosity:	> 20.5 mm²/s (40°C)
Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

10. STABILITY AND REACTIVITY

Reactivity
Stable under normal conditions

Chemical stability
Stable under normal conditions

Possibility of hazardous reactions
It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth), and nitrides.
It may catch fire on contact with oxidising mineral acids, powerful oxidising agents, and powerful reducing agents.

Conditions to avoid
Stable under normal conditions.

Incompatible materials
Avoid contact with combustible materials. The product could catch fire.

Hazardous decomposition products
None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the product:
N.A.

Toxicological information of the main substances found in the product:
n-butyl acetate - CAS: 123-86-4
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 6400 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat = 21.1 mg/l - Duration: 4h

Solvent naphtha (petroleum), light arom. - CAS: 64742-95-6
a) acute toxicity:
Test: LC50 - Route: Inhalation - Species: Rat > 6193 mg/m3
Test: LD50 - Route: Oral - Species: Rat = 3592 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 3160 mg/kg
2-butoxyethyl acetate - CAS: 112-07-2
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 2400 mg/kg
Test: LD50 - Route: Oral - Species: Mouse = 3200 mg/kg
Test: LD50 - Route: Skin - Species: Rat = 1580 mg/kg
Benzotriazol derivates - Poly(oxy-1,2-ethanediyl),
.alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- - CAS: 104810-48-2
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat > 5.8 mg/l
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
d) respiratory or skin sensitisation:
Test: Skin Sensitization - Route: Skin - Species: GUINEA PIG Positive
Benzotriazol derivates - Poly(oxy-1,2-ethanediyl),
.alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]- - CAS: 104810-47-1
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat > 5.8 mg/l
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
d) respiratory or skin sensitisation:
Test: Skin Sensitization - Route: Skin - Species: GUINEA PIG Positive
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate - CAS: 41556-26-7
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg
d) respiratory or skin sensitisation:
Test: Skin Sensitization - Route: Skin Positive
isobutyl methacrylate - CAS: 97-86-9
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Mouse = 11990 g/kg
2-hydroxyethyl methacrylate - CAS: 868-77-9
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 5050 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 3000 mg/kg
Solvent naphtha (petroleum), light arom. - CAS: 64742-95-6
ACUTE: Inhalation: Vapor concentration above recommended exposure levels may be irritating to the eyes and the repiratory tract, may cause headaches and dizziness, could be anesthetic and may other nervous system effects.
Skin contact: Low order of toxicity. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Eye contact: Will cause eye discomfort, but will noy injure eye tissue.
Ingestion: Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary edema. Minimal toxicity.

Substance(s) listed on the NTP report on Carcinogens:
None.
Substance(s) listed on the IARC Monographs:
None.
Substance(s) listed as OSHA Carcinogen(s):
None.
Substance(s) listed as NIOSH Carcinogen(s):
None.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Adopt good working practices, so that the product is not released into the environment.
n-butyl acetate - CAS: 123-86-4
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia = 44 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae = 648 mg/l - Duration h: 72
Endpoint: LC50 - Species: Fish = 18 mg/l - Duration h: 96
Solvent naphtha (petroleum), light arom. - CAS: 64742-95-6
a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 3.2 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae = 2.9 mg/l - Duration h: 72
Endpoint: LC50 - Species: Fish = 9.2 mg/l
Endpoint: EC50 - Species: Algae = 1 mg/l - Notes: NOEC

Benzotriazol derivates - Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- - CAS: 104810-48-2

a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Daphnia = 4 mg/l - Duration h: 48

Benzotriazol derivates - Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]- - CAS: 104810-47-1

a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Daphnia = 4 mg/l - Duration h: 48

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate - CAS: 41556-26-7

a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 0.97 mg/l - Duration h: 96

Persistence and degradability
N.A.

Bioaccumulative potential
N.A.

Mobility in soil
N.A.

Other adverse effects
None

13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal methods
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

UN number

ADR-UN Number:	1263
IATA-UN Number:	1263
IMDG-UN Number:	1263

UN proper shipping name

ADR-Shipping Name:	PAINT
IATA-Shipping Name:	PAINT
IMDG-Shipping Name:	PAINT

Transport hazard class(es)

ADR-Class:	3
ADR-Label:	3
ADR - Hazard identification number:	30
IATA-Class:	3
IATA-Label:	3
IMDG-Class:	3
IMDG-Class:	3

Packing group

ADR-Packing Group:	III
IATA-Packing group:	III
IMDG-Packing group:	III

Environmental hazards

ADR-Enviromental Pollutant:	No
IMDG-Marine pollutant:	No

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)
N.A.

Special precautions

ADR-Subsidiary risks:	-
ADR-S.P.:	163 367 640E 650
ADR-Transport category (Tunnel restriction code):	3 (D/E)

IATA-Passenger Aircraft:	355
IATA-Subsidiary risks:	-
IATA-Cargo Aircraft:	366
IATA-S.P.:	A3 A72 A192
IATA-ERG:	3L
IMDG-Page:	3372
IMDG-EmS:	F-E , S-E
IMDG-Subsidiary risks:	-
IMDG-MFAG:	310
IMDG-Stowage and handling:	Category A
IMDG-Segregation:	-

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory: all the components are listed on the TSCA inventory.
TSCA listed substances:
n-butyl acetate is listed in TSCA Section 8b
Solvent naphtha (petroleum), light arom. is listed in TSCA Section 8b, Section 8d HSDR
2-butoxyethyl acetate is listed in TSCA Section 8b
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate is listed in TSCA Section 8b
isobutyl methacrylate is listed in TSCA Section 8b
2-hydroxyethyl methacrylate is listed in TSCA Section 8b.

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances: no substances listed.
Section 304 - Hazardous substances: n-butyl acetate.
Section 313 - Toxic chemical list: no substances listed.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: n-butyl acetate - Reportable quantity: 5000 pounds.
Reportable quantity for mixture: 1472.233673 pounds.

CAA - Clean Air Act

CAA listed substances:
n-butyl acetate is listed in CAA Section 111
2-butoxyethyl acetate is listed in CAA Section 111, Section 112(b) - HON.

CWA - Clean Water Act

CWA listed substances:
n-butyl acetate is listed in CWA Section 304, Section 311.

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:
None.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:
n-butyl acetate.

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:
n-butyl acetate
2-butoxyethyl acetate
isobutyl methacrylate.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:
n-butyl acetate.

16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H335 May cause respiratory irritation.
H411 Toxic to aquatic life with long lasting effects.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.
H317 May cause an allergic skin reaction.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H319 Causes serious eye irritation.

H315 Causes skin irritation.

Safety Data Sheet dated 2/1/2017, version 1
Disclaimer:
The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.
This Safety Data Sheet cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average