

1 Identification

Product identifier

Trade name: 4.2 VOC Clear Coat 4:1

Other means of identification Clear coating material, Varnish

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Chemical Alliance Polska Sp. z o.o.

ul. Prosta 23, Łozienica

72-100 Goleniów

Tel. +48 91 41 65 440

info@cap.pl

Information department: sds@cap.pl

Emergency telephone number: +48 91 41 65 440 (8:00-16:00)

2 Hazard(s) identification

Classification of the substance or mixture



GHS02

Flam. Liq. 2 H225

Highly flammable liquid and vapor.



GHS08

Carc. 2 H351

Suspected of causing cancer.

STOT RE 2 H373

May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315

Causes skin irritation.

Eye Irrit. 2A H319

Causes serious eye irritation.

Skin Sens. 1 H317

May cause an allergic skin reaction.

STOT SE 3 H335-H336

May cause respiratory irritation. May cause drowsiness or dizziness.

Label elements

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS02



GHS07



GHS08

Signal word

Danger

Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

May cause respiratory irritation. May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Obtain special instructions before use.

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Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Call a poison center/doctor if you feel unwell.
 Wash contaminated clothing before reuse.
 Store in a well-ventilated place. Keep container tightly closed.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:
NFPA ratings (scale 0 - 4)

HMIS-ratings (scale 0 - 4)


Describe any hazards not otherwise classified that have been identified during the classification process.

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:		
CAS: 79-20-9 EINECS: 201-185-2	methyl acetate	10-25%
CAS: 1330-20-7 EINECS: 215-535-7	xylene	10-<20%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate	5-15%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom.	2.5-10%
CAS: 123-86-4 EINECS: 204-658-1	n-butyl acetate	1-7.5%
CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene	1-2.5%
CAS: 112-07-2 EINECS: 203-933-3	2-butoxyethyl acetate	1-5%
CAS: 41556-26-7	Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.1-1%

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4 First-aid measures

Description of first aid measures**General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Take affected persons out of danger area and lay down.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Do not induce vomiting; immediately call for medical help.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

Extinguishing media**Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide and carbon dioxide

Advice for firefighters**Protective equipment:**

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Additional information

Cool endangered receptacles with water spray.

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.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources

Avoid contact with the eyes and skin.

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

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Do not flush with water or aqueous cleansing agents

Dispose of the collected material according to regulations.

Reference to other sections

See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

PAC-1:		
79-20-9	methyl acetate	250 ppm
1330-20-7	xylene	130 ppm
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
123-86-4	n-butyl acetate	5 ppm
100-41-4	ethylbenzene	33 ppm
112-07-2	2-butoxyethyl acetate	15 ppm
PAC-2:		
79-20-9	methyl acetate	1,700 ppm
1330-20-7	xylene	920* ppm
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
123-86-4	n-butyl acetate	200 ppm
100-41-4	ethylbenzene	1100* ppm
112-07-2	2-butoxyethyl acetate	35 ppm
PAC-3:		
79-20-9	methyl acetate	10000* ppm
1330-20-7	xylene	2500* ppm
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
123-86-4	n-butyl acetate	3000* ppm
100-41-4	ethylbenzene	1800* ppm
112-07-2	2-butoxyethyl acetate	210 ppm

7 Handling and storage

Handling:
Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

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

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

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Keep respiratory protective device available.

Fumes can combine with air to form an explosive mixture.

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.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

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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:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

79-20-9 methyl acetate	
PEL	Long-term value: 610 mg/m ³ , 200 ppm
REL	Short-term value: 760 mg/m ³ , 250 ppm Long-term value: 610 mg/m ³ , 200 ppm
TLV	Short-term value: 757 mg/m ³ , 250 ppm Long-term value: 606 mg/m ³ , 200 ppm
1330-20-7 xylene	
PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm BEI
108-65-6 2-methoxy-1-methylethyl acetate	
WEEL	Long-term value: 50 ppm
123-86-4 n-butyl acetate	
PEL	Long-term value: 710 mg/m ³ , 150 ppm
REL	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm
TLV	Short-term value: 712 mg/m ³ , 150 ppm Long-term value: 238 mg/m ³ , 50 ppm
100-41-4 ethylbenzene	
PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 545 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Long-term value: 87 mg/m ³ , 20 ppm BEI
112-07-2 2-butoxyethyl acetate	
REL	Long-term value: 33 mg/m ³ , 5 ppm
TLV	Long-term value: 130 mg/m ³ , 20 ppm

Regulatory information

PEL: Guide to Occupational Exposure Values (OSHA PELs)

REL: Guide to Occupational Exposure Values (NIOSH RELs)

TLV: Guide to Occupational Exposure Values (ACGIH)

WEEL: Guide to Occupational Exposure Values (AIHA WEELs)

Ingredients with biological limit values:

1330-20-7 xylene	
BEI	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids

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100-41-4 ethylbenzene	
BEI	0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
-	Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)

Regulatory information BEI: Guide to Occupational Exposure Values (BEI)

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

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Keep ignition sources away - Do not smoke.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Do not eat or drink while working.

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.

Filter A2/P2

Protection of hands:



Protective gloves

Check the permeability prior to each renewed use of the glove.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (EN 374).

Material of gloves

Fluorocarbon rubber (Viton)

Recommended thickness of the material: $\geq 0,7$ mm

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

Value for the permeation: Level 6 ≥ 480 min.

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

Eye protection:



Tightly sealed goggles

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Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties	
General Information	
Appearance:	
Form:	Fluid
Color:	Colorless/ slightly yellow
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	124-128 °C (255.2-262.4 °F)
Flash point:	<23 °C (<73.4 °F)
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Explosion limits:	
Lower:	0.7 Vol %
Upper:	15 Vol %
Vapor pressure at 20 °C (68 °F):	10.7 hPa (8 mm Hg)
Density at 20 °C (68 °F):	0.96-0.98 g/cm ³ (8.01-8.18 lbs/gal)
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water): Not determined.	
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Other information	No further relevant information available.

10 Stability and reactivity

Reactivity

No decomposition if used according to specifications.

No further relevant information available.

Chemical stability No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

Reacts with alkali, amines and strong acids.

Reacts with oxidizing agents.

Fumes can combine with air to form an explosive mixture.

Conditions to avoid Protect from heat and direct sunlight.

Incompatible materials: No further relevant information available.

Hazardous decomposition products:

Carbon monoxide and carbon dioxide

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Formation of toxic gases is possible during heating or in case of fire.

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

79-20-9 methyl acetate

Oral	LD50	3,705 mg/kg (rabbit)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>49.2 mg/l (rabbit)

1330-20-7 xylene

Oral	ATE	>2,000 mg/kg
Dermal	ATE	1,466.67 mg/kg
Inhalative	ATE	12.09 mg/l (vapour)

108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/6 h	4,345 mg/l (rat)

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

Oral	LD50	>6,800 mg/kg (rat)
Dermal	LD50	>3,400 mg/kg (rab)

123-86-4 n-butyl acetate

Oral	LD50	10,760 mg/kg (rat)
Dermal	LD50	>14,000 mg/kg (rabbit)
Inhalative	LC50/4 h	23.4 mg/l (rat)

100-41-4 ethylbenzene

Inhalative	LC50/4 h	11 mg/l (ATE)
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112-07-2 2-butoxyethyl acetate

Oral	LD50	1,880 mg/kg (rat)
Dermal	LD50	1,500 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)

Information on the likely routes of exposure.

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitization: Sensitization possible through skin contact.

Carcinogenic categories

IARC (International Agency for Research on Cancer)

1330-20-7	xylene	3
100-41-4	ethylbenzene	2B

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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12 Ecological information

Toxicity

Aquatic toxicity:

1330-20-7 xylene

LC50/96 h	2.6 mg/l (fish)
IC50/72 h	2.2 mg/l (algae)
EC50/48 h	>1-10 mg/l (<i>Daphnia magna</i>)
EC50/24 h	96 mg/l (microorganisms)

108-65-6 2-methoxy-1-methylethyl acetate

LC50/96 h	>100 mg/l (fish)
EC50/48 h	>500 mg/l (<i>Daphnia magna</i>)
EC20/30 min	>1,000 mg/l (microorganisms)
EC50/72 h	>1,000 mg/l (<i>Pseudokirchnerella subcapitata</i>)
EC50	>100 mg/l (<i>Pseudokirchnerella subcapitata</i>) >100 mg/l (<i>Pimephales promelas</i>) >100 mg/l (<i>Daphnia magna</i>)

123-86-4 n-butyl acetate

LC50/96 h	18 mg/l (<i>Pimephales promelas</i>)
TT/16 h	115 mg/l (<i>Pseudomonas putida</i>)
EC50/48 h	44 mg/l (<i>daphnia</i>)
EC50/72 h	675 mg/l (algae)

112-07-2 2-butoxyethyl acetate

EC50/72 h	>100 mg/l (<i>Scenedesmus subspicatus</i>)
EC50/24 h	>100 mg/l (<i>Daphnia magna</i>)
LC50/48 h	10-100 mg/l (<i>Leuciscus idus melanotus</i>)

Persistence and degradability

1330-20-7 xylene

Biodegradation	>60 % (readily biodegradable) (OECD 301 F, 28 d, aerobic)
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108-65-6 2-methoxy-1-methylethyl acetate

Biodegradation	100 % (readily biodegradable) (OECD 302 B, 8 d, aerobic)
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123-86-4 n-butyl acetate

Biodegradation	83 % (readily biodegradable) (OECD 301 D, 28 d, aerobic)
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112-07-2 2-butoxyethyl acetate

Biodegradation	>70 % (readily biodegradable) (OECD 301C, 28d)
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Behavior in environmental systems:

Bioaccumulative potential

1330-20-7 xylene

BCF	25.9
log Pow	3.15

108-65-6 2-methoxy-1-methylethyl acetate

log Pow	0.56
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123-86-4 n-butyl acetate

BCF	15.3 (-)
log Pow	2.3

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Mobility in soil	
108-65-6 2-methoxy-1-methylethyl acetate	
Koc	1.7
123-86-4 n-butyl acetate	
log Koc	1.27

Additional ecological information:

General notes:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

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.

14 Transport information

UN-Number DOT, ADR, IMDG, IATA	UN1263
UN proper shipping name DOT ADR IMDG, IATA	Paint 1263 PAINT PAINT
Transport hazard class(es) DOT	
	
Class Label	3 3
ADR, IMDG, IATA	
	
Class Label	3 3
Packing group DOT, ADR, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user Danger code (Kemler):	Warning: Flammable liquids 33

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EMS Number:	F-E,S-E
Stowage Category	B
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	1L
UN "Model Regulation":	UN 1263 PAINT, 3, II

15 Regulatory information

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

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

1330-20-7	xylene
100-41-4	ethylbenzene
112-07-2	2-butoxyethyl acetate

TSCA (Toxic Substances Control Act):

79-20-9	methyl acetate	ACTIVE
1330-20-7	xylene	ACTIVE
108-65-6	2-methoxy-1-methylethyl acetate	ACTIVE
64742-95-6	Solvent naphtha (petroleum), light arom.	ACTIVE
123-86-4	n-butyl acetate	ACTIVE
100-41-4	ethylbenzene	ACTIVE
112-07-2	2-butoxyethyl acetate	ACTIVE
41556-26-7	Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	ACTIVE

Hazardous Air Pollutants

1330-20-7	xylene
100-41-4	ethylbenzene
80-62-6	methyl methacrylate

Proposition 65

Chemicals known to cause cancer:

100-41-4	ethylbenzene
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Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

New Jersey Right-to-Know List:

79-20-9	methyl acetate
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1330-20-7	xylene	
123-86-4	n-butyl acetate	
100-41-4	ethylbenzene	
112-07-2	2-butoxyethyl acetate	

New Jersey Special Hazardous Substance List:

79-20-9	methyl acetate	F3
1330-20-7	xylene	F3
123-86-4	n-butyl acetate	F3
100-41-4	ethylbenzene	CA, F3

Pennsylvania Right-to-Know List:

79-20-9	methyl acetate	
1330-20-7	xylene	
123-86-4	n-butyl acetate	
100-41-4	ethylbenzene	

Pennsylvania Special Hazardous Substance List:

1330-20-7	xylene	E
123-86-4	n-butyl acetate	E
100-41-4	ethylbenzene	E

Carcinogenic categories**EPA (Environmental Protection Agency)**

1330-20-7	xylene	I
100-41-4	ethylbenzene	D

TLV (Threshold Limit Value established by ACGIH)

1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
112-07-2	2-butoxyethyl acetate	A3

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

None of the ingredients is listed.

National regulations:**Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

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.

Date of preparation / last revision 06/19/2019 / -**Abbreviations and acronyms:**

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)

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LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 2: Flammable liquids – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Sensitisation - Skin. Hazard Category 1
Carc. 2: Carcinogenicity. Hazard Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Sources European Chemicals Agency, <http://echa.europa.eu/>

— US —