

# LABEL ELEMENTS OF THE CLP REGULATION

## REPERTORY

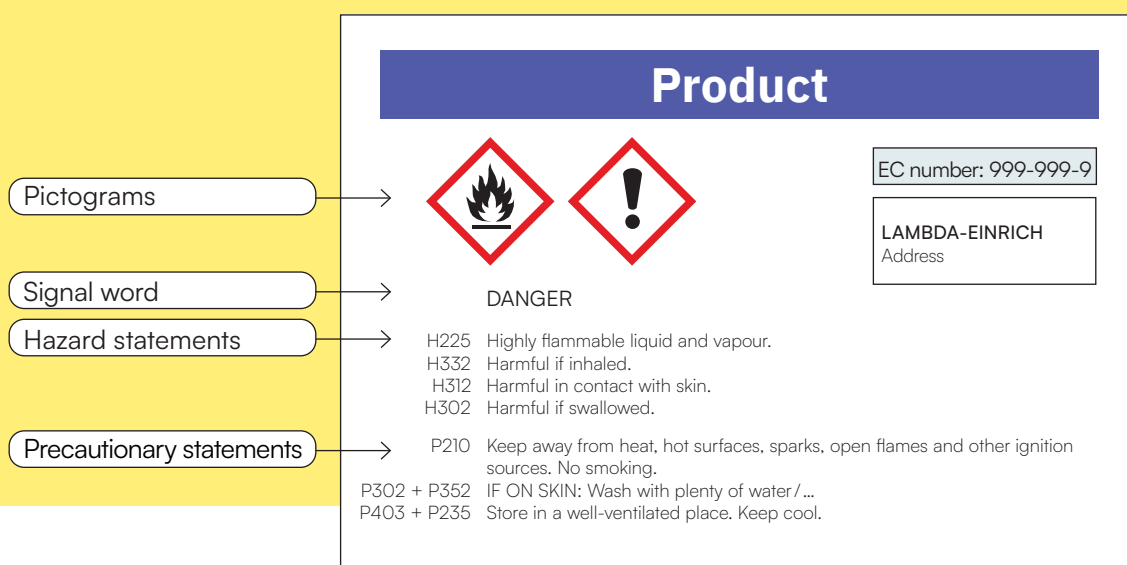




# LABEL ELEMENTS OF THE CLP REGULATION

This document lists the labelling elements — pictograms, warnings, hazard statements, precautionary statements — that you may find on the packaging and the safety data sheets of chemical products subject to European Union legislation.

The labelling elements present on the label of a typical product








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CLP regulation : Regulation (EC) n° 1272/2008 of the european parliament and of the council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, in the state in which it was last adapted to technical and scientific progress.

# Physical hazards

1/3




EXPLOSIVES			
Unstable explosive	Division 1.1	Division 1.2	Division 1.3
			
Danger	Danger	Danger	Danger
<b>H200</b> Unstable Explosive	<b>H201</b> Explosive; mass explosion hazard	<b>H202</b> Explosive; severe projection hazard	<b>H203</b> Explosive; fire, blast or projection hazard
Division 1.4	Division 1.5	Division 1.6	
	[ No pictogram ]	[ No pictogram ]	
Warning	Danger	No signal word	
<b>H204</b> Fire or projection hazard	<b>H205</b> May mass explode in fire	No hazard statement	



DESENSITISED EXPLOSIVES			
Category 1	Category 2	Category 3	Category 4
			
Danger	Danger	Warning	Warning
<b>H206</b> Fire, blast or projection hazard; increased risk of explosion if desensitising agent is reduced	<b>H207</b> Fire or projection hazard; increased risk of explosion if desensitising agent is reduced	<b>H207</b> Fire or projection hazard; increased risk of explosion if desensitising agent is reduced	<b>H208</b> Fire hazard; increased risk of explosion if desensitising agent is reduced




FLAMMABLE GASES					
Category 1A	Category 1A Chemically unstable gas A	Category 1A Chemically unstable gas B	Category 1A Pyrophoric gas	Category 1B	Category 2
					[ No pictogram ]
Danger	Danger	Danger	Danger	Danger	Warning
<b>H220</b> Extremely flammable gas	<b>H220</b> Extremely flammable gas <b>H230</b> May react explosively even in the absence of air	<b>H220</b> Extremely flammable gas <b>H231</b> May react explosively even in the absence of air at elevated pressure and/or temperature	<b>H220</b> Extremely flammable gas <b>H232</b> May ignite spontaneously if exposed to air	<b>H221</b> Flammable gas	<b>H221</b> Flammable gas



# Physical hazards






2/3






FLAMMABLE LIQUIDS		
Category 1	Category 2	Category 3
		
Danger	Danger	Warning
<b>H224</b> Extremely flammable liquid and vapour	<b>H225</b> Highly flammable liquid and vapour	<b>H226</b> Flammable liquid and vapour

FLAMMABLE SOLIDS	
Category 1	Category 2
	
Danger	Warning
<b>H228</b> Flammable Solid	<b>H228</b> Flammable Solid

SUBSTANCES AND MIXTURES WHICH IN CONTACT WITH WATER EMIT FLAMMABLE GASES		
Category 1	Category 2	Category 3
		
Danger	Danger	Warning
<b>H260</b> In contact with water releases flammable gases which may ignite spontaneously	<b>H261</b> In contact with water releases flammable gases	<b>H261</b> In contact with water releases flammable gases


AEROSOLS		
Category 1	Category 2	Category 3
		[ No pictogram ]
Danger	Warning	Warning
<b>H222</b> Extremely flammable aerosol <b>H229</b> Pressurised container: May burst if heated	<b>H223</b> Flammable aerosol <b>H229</b> Pressurised container: May burst if heated	<b>H229</b> Pressurised container: May burst if heated


SELF-REACTIVE SUBSTANCES AND MIXTURES				
Type A	Type B	Types C and D	Types E and F	Type G
	 			There are no label elements allocated to this hazard category
Danger	Danger	Danger	Warning	
<b>H240</b> Heating may cause an explosion	<b>H241</b> Heating may cause a fire or explosion	<b>H242</b> Heating may cause a fire	<b>H242</b> Heating may cause a fire	



ORGANIC PEROXIDES				
Type A	Type B	Types C and D	Types E and F	Type G
	 			There are no label elements allocated to this hazard category
Danger	Danger	Danger	Warning	
<b>H240</b> Heating may cause an explosion	<b>H241</b> Heating may cause a fire or explosion	<b>H242</b> Heating may cause a fire	<b>H242</b> Heating may cause a fire	


# Physical hazards




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PYROPHORIC LIQUIDS
Category 1

Danger
<b>H250</b> Catches fire spontaneously if exposed to air


PYROPHORIC SOLIDS
Category 1

Danger
<b>H250</b> Catches fire spontaneously if exposed to air





SELF-HEATING SUBSTANCES AND MIXTURES	
Category 1	Category 2
	
Danger	Warning
<b>H251</b> Self-heating; may catch fire	<b>H252</b> Self-heating in large quantities; may catch fire

OXIDISING GASES
Category 1

Danger
<b>H270</b> May cause or intensify fire; oxidiser

OXIDISING LIQUIDS		
Category 1	Category 2	Category 3
		
Danger	Danger	Warning
<b>H271</b> May cause fire or explosion; strong oxidiser	<b>H272</b> May intensify fire; oxidiser	<b>H272</b> May intensify fire; oxidiser




OXIDISING SOLIDS		
Category 1	Category 2	Category 3
		
Danger	Danger	Warning
<b>H271</b> May cause fire or explosion; strong oxidiser	<b>H272</b> May intensify fire; oxidiser	<b>H272</b> May intensify fire; oxidiser




SUBSTANCES AND MIXTURES CORROSIVE TO METALS
Category 1

Warning
<b>H290</b> May be corrosive to metals

GASES UNDER PRESSURE			
Compressed gas	Liquefied gas	Refrigerated liquefied gas	Dissolved gas
			
Warning	Warning	Warning	Warning
<b>H280</b> Contains gas under pressure; may explode if heated	<b>H280</b> Contains gas under pressure; may explode if heated	<b>H281</b> Contains refrigerated gas; may cause cryogenic burns or injury	<b>H280</b> Contains refrigerated gas; may cause cryogenic burns or injury



# Health hazards



1/2

ACUTE TOXICITY		
Categories 1 and 2	Category 3	Category 4
		
Danger	Danger	Warning
<b>H300</b> Fatal if swallowed	<b>H301</b> Toxic if swallowed	<b>H302</b> Harmful if swallowed
<b>H310</b> Fatal in contact with skin	<b>H311</b> Toxic in contact with skin	<b>H312</b> Harmful in contact with skin
<b>H330</b> Fatal if inhaled	<b>H331</b> Toxic if inhaled	<b>H332</b> Harmful if inhaled

SPECIFIC TARGET ORGAN TOXICITY AFTER SINGLE EXPOSURE		
Category 1	Category 2	Category 3
		
Danger	Warning	Warning
<b>H370</b> Causes damage to organs <sup>1,2</sup>	<b>H371</b> May cause damage to organs <sup>1,2</sup>	<b>H335</b> May cause respiratory irritation or <b>H336</b> May cause drowsiness or dizziness




1. Or all organs affected, if known.
2. Route of exposure if it is conclusively proven that no other routes of exposure cause the hazard.





SKIN CORROSION / SKIN IRRITATION	
Category 1 and sub-Categories 1A/1B/1C	Category 2
	
Danger	Warning
<b>H314</b> Causes severe skin burns and eye damage	<b>H315</b> Causes skin irritation



SERIOUS EYE DAMAGE / EYE IRRITATION	
Category 1	Category 2
	
Danger	Warning
<b>H318</b> Causes serious eye damage	<b>H319</b> Causes serious eye irritation



# Health hazards

2/2

ASPIRATION TOXICITY	RESPIRATORY OR SKIN SENSITISATION	
Category 1	Respiratory sensitisation Category 1 and subcategories 1A and 1B	Skin sensitisation Category 1 and subcategories 1A and 1B
		
Danger	Danger	Warning
<b>H304</b> May be fatal if swallowed and enters airways	<b>H334</b> May cause allergy or asthma symptoms or breathing difficulties if inhaled	<b>H317</b> May cause an allergic skin reaction

GERM CELL MUTAGENICITY		CARCINOGENICITY	
Categories 1A and 1B	Category 2	Categories 1A and 1B	Category 2
			
Danger	Warning	Danger	Warning
<b>H340</b> May cause genetic defects <sup>2</sup>	<b>H341</b> Suspected of causing genetic defects <sup>2</sup>	<b>H350</b> May cause cancer <sup>2</sup>	<b>H351</b> Suspected of causing cancer <sup>2</sup>




REPRODUCTIVE TOXICITY		
Categories 1A and 1B	Category 2	Effects on or via lactation
		[ No pictogram ]
Danger	Warning	No hazard statement
<b>H360</b> May damage fertility or the unborn child <sup>2</sup>	<b>H361</b> Suspected of damaging fertility or the unborn child <sup>2</sup>	<b>H362</b> May cause harm to breast-fed children


SPECIFIC TARGET ORGAN TOXICITY AFTER REPEATED EXPOSURE	
Category 1	Category 2
	
Danger	Warning
<b>H372</b> Causes damage to organs <sup>1</sup> through prolonged or repeated exposure <sup>2</sup>	<b>H373</b> May cause damage to organs <sup>1</sup> through prolonged or repeated exposure <sup>2</sup>

1. Or all organs affected, if known.
2. Route of exposure if it is conclusively proven that no other routes of exposure cause the hazard.



# Environmental hazards

HAZARDOUS TO THE AQUATIC ENVIRONMENT				
SHORT-TERM (ACUTE) AQUATIC HAZARD	LONG-TERM (CHRONIC) AQUATIC HAZARD			
Acute 1	Chronic 1	Chronic 2	Chronic 3	Chronic 4
			[ No pictogram ]	[ No pictogram ]
Warning	Warning	No signal word	No signal word	No signal word
<b>H400</b> Very toxic to aquatic life	<b>H410</b> Very toxic to aquatic life with long lasting effects	<b>H411</b> Toxic to aquatic life with long lasting effects	<b>H412</b> Harmful to aquatic life with long lasting effects	<b>H413</b> May cause long lasting harmful effects to aquatic life

HAZARDOUS TO THE OZONE LAYER
Category 1

Warning
<b>H420</b> Harms public health and the environment by destroying ozone in the upper atmosphere

# List of hazard statements

1/3

Codification	Wording
H200	Unstable explosives.
H201	Explosive; mass explosion hazard.
H202	Explosive, severe projection hazard.
H203	Explosive; fire, blast or projection hazard.
H204	Fire or projection hazard.
H205	May mass explode in fire.
H206	Fire, blast or projection hazard; increased risk of explosion if desensitising agent is reduced.
H207	Fire or projection hazard; increased risk of explosion if desensitising agent is reduced.
H208	Fire hazard; increased risk of explosion if desensitising agent is reduced.
H220	Extremely flammable gas.
H221	Flammable gas.
H222	Extremely flammable aerosol.
H223	Flammable aerosol.
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H229	Pressurised container: May burst if heated.
H230	May react explosively even in the absence of air.
H231	May react explosively even in the absence of air at elevated pressure and/or temperature.
H232	May ignite spontaneously if exposed to air.
H240	Heating may cause an explosion.
H241	Heating may cause a fire or explosion.
H242	Heating may cause a fire.
H250	Catches fire spontaneously if exposed to air.
H251	Self-heating; may catch fire.
H252	Self-heating in large quantities; may catch fire.
H260	In contact with water releases flammable gases which may ignite spontaneously.
H261	In contact with water releases flammable gases.
H270	May cause or intensify fire; oxidiser.
H271	May cause fire or explosion; strong oxidiser.
H272	May intensify fire; oxidiser.
H280	Contains gas under pressure; may explode if heated.
H281	Contains refrigerated gas; may cause cryogenic burns or injury.
H290	May be corrosive to metals.

# List of hazard statements

2/3

Codification	Wording
H300 *	Fatal if swallowed.
H301 **	Toxic if swallowed.
H302 ***	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H310 *	Fatal in contact with skin.
H311 **	Toxic in contact with skin.
H312 ***	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330 *	Fatal if inhaled.
H331 **	Toxic if inhaled.
H332 ***	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> ).
H341	Suspected of causing genetic defects ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> ).
H350	May cause cancer ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> ).
H351	Suspected of causing cancer ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> ).
H360	May damage fertility or the unborn child ( <i>state specific effect if known</i> ) ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> ).
H361	Suspected of damaging fertility or the unborn child ( <i>state specific effect if known</i> ) ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> ).
H362	May cause harm to breast-fed children.
H370	Causes damage to organs ( <i>or state all organs affected, if known</i> ) ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> ).
H371	May cause damage to organs ( <i>or state all organs affected, if known</i> ) ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> ).
H372	Causes damage to organs ( <i>or state all organs affected, if known</i> ) through prolonged or repeated exposure ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> ).
H373	May cause damage to organs ( <i>or state all organs affected, if known</i> ) through prolonged or repeated exposure ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> ).

\* Possible combinations of these terms.

\*\* Possible combinations of these terms.

\*\*\* Possible combinations of these terms.

# List of hazard statements

3/3

Codification	Wording
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
H420	Harms public health and the environment by destroying ozone in the upper atmosphere.

## Supplemental hazard information

Codification	Wording
EUH014	Reacts violently with water.
EUH018	In use may form flammable/explosive vapour-air mixture.
EUH019	May form explosive peroxides.
EUH029	Contact with water liberates toxic gas.
EUH031	Contact with acids liberates toxic gas.
EUH032	Contact with acids liberates very toxic gas.
EUH044	Risk of explosion if heated under confinement.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH070	Toxic by eye contact.
EUH071	Corrosive to the respiratory tract.
EUH201	Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.
EUH201A	Warning! Contains lead.
EUH202	Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
EUH203	Contains chromium (VI). May produce an allergic reaction.
EUH204	Contains isocyanates. May produce an allergic reaction.
EUH205	Contains epoxy constituents. May produce an allergic reaction.
EUH206	Warning! Do not use together with other products. May release dangerous gases (chlorine).
EUH207	Warning! Contains cadmium. Dangerous fumes are formed during use. See information supplied by the manufacturer. Comply with the safety instructions.
EUH208	Contains ( <i>name of sensitising substance</i> ). May produce an allergic reaction.
EUH209	Can become highly flammable in use.
EUH209A	Can become flammable in use.
EUH210	Safety data sheet available on request.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

# List of precautionary statements 1/3

Codification	Wording
<b>General precautionary statements</b>	
<b>P101</b>	If medical advice is needed, have product container or label at hand.
<b>P102</b>	Keep out of reach of children.
<b>P103</b>	Read carefully and follow all instructions.
<b>Precautionary statements — prevention</b>	
<b>P201</b>	Obtain special instructions before use.
<b>P202</b>	Do not handle until all safety precautions have been read and understood.
<b>P210</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
<b>P211</b>	Do not spray on an open flame or other ignition source.
<b>P212</b>	Avoid heating under confinement or reduction of the desensitising agent.
<b>P220</b>	Keep away from clothing and other combustible materials.
<b>P222</b>	Do not allow contact with air.
<b>P223</b>	Do not allow contact with water.
<b>P230</b>	Keep wetted with ...
<b>P231 + P232</b>	Handle and store contents under inert gas/... Protect from moisture.
<b>P233</b>	Keep container tightly closed.
<b>P234</b>	Keep only in original packaging.
<b>P235</b>	Keep cool.
<b>P240</b>	Ground and bond container and receiving equipment.
<b>P241</b>	Use explosion-proof [electrical / ventilating / lighting / ...] equipment.
<b>P242</b>	Use non-sparking tools.
<b>P243</b>	Take action to prevent static discharges.
<b>P244</b>	Keep valves and fittings free from oil and grease.
<b>P250</b>	Do not subject to grinding / shock / friction ...
<b>P251</b>	Do not pierce or burn, even after use.
<b>P260</b>	Do not breathe dust / fume / gas / mist / vapours / spray.
<b>P261</b>	Avoid breathing dust / fume / gas / mist / vapours / spray.
<b>P262</b>	Do not get in eyes, on skin, or on clothing.
<b>P263</b>	Avoid contact during pregnancy and while nursing.
<b>P264</b>	Wash ... thoroughly after handling.
<b>P270</b>	Do not eat, drink or smoke when using this product.
<b>P271</b>	Use only outdoors or in a well-ventilated area.
<b>P272</b>	Contaminated work clothing should not be allowed out of the workplace.
<b>P273</b>	Avoid release to the environment.
<b>P280</b>	Wear protective gloves / protective clothing / eye protection / face protection / hearing protection / ...
<b>P282</b>	Wear cold insulating gloves and either face shield or eye protection.
<b>P283</b>	Wear fire resistant or flame retardant clothing.
<b>P284</b>	[In case of inadequate ventilation] wear respiratory protection.
<b>Precautionary statements — intervention</b>	
<b>P301 + P310</b>	IF SWALLOWED: Immediately call a POISON CENTER / doctor / ...
<b>P301 + P312</b>	IF SWALLOWED: Call a POISON CENTRE / doctor / ... if you feel unwell.
<b>P301 + P330 + P331</b>	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

# List of precautionary statements 2/3

Codification	Wording
<b>P302 + P334</b>	IF ON SKIN: Immerse in cool water [or wrap in wet bandages].
<b>P302 + P334 + P335</b>	IF ON SKIN: Brush off loose particles from skin. Immerse in cool water [or wrap in wet bandages].
<b>P302 + P352</b>	IF ON SKIN: Wash with plenty of water / ...
<b>P303 + P361 + P353</b>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
<b>P304 + P340</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
<b>P305 + P351 + P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>P306 + P360</b>	IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
<b>P308 + P311</b>	IF exposed or concerned: Call a POISON CENTER/doctor / ...
<b>P308 + P313</b>	IF exposed or concerned: Get medical advice/attention.
<b>P310</b>	Immediately call a POISON CENTER/doctor/...
<b>P311</b>	Call a POISON CENTER/doctor / ...
<b>P312</b>	Call a POISON CENTRE/doctor / ... if you feel unwell.
<b>P314</b>	Get medical advice/attention if you feel unwell.
<b>P315</b>	Get immediate medical advice/attention.
<b>P320</b>	Specific treatment is urgent (see ... on this label).
<b>P321</b>	Specific treatment (see ... on this label).
<b>P330</b>	Rinse mouth.
<b>P331</b>	Do NOT induce vomiting.
<b>P332 + P313</b>	If skin irritation occurs: Get medical advice/attention.
<b>P333 + P313</b>	If skin irritation or rash occurs: Get medical advice/attention.
<b>P336</b>	Thaw frosted parts with lukewarm water. Do not rub affected area.
<b>P336 + P315</b>	Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice/attention.
<b>P337 + P313</b>	If eye irritation persists: Get medical advice/attention.
<b>P342 + P311</b>	If experiencing respiratory symptoms: Call a POISON CENTER/doctor / ...
<b>P361 + P364</b>	Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
<b>P362 + P364</b>	Take off contaminated clothing. And wash it before reuse.
<b>P370 + P372 + P380 + P373</b>	In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.
<b>P370 + P376</b>	In case of fire: Stop leak if safe to do so.
<b>P370 + P378</b>	In case of fire: Use ... to extinguish.
<b>P370 + P380 + P375</b>	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
<b>P370 + P380 + P375 + P[378]</b>	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. [Use ... to extinguish].
<b>P371 + P380 + P375</b>	In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
<b>P377</b>	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
<b>P381</b>	In case of leakage, eliminate all ignition sources.
<b>P390</b>	Absorb spillage to prevent material damage.
<b>P391</b>	Collect spillage.

# List of precautionary statements 3/3

Codification	Wording
<b>Precautionary statements — storage</b>	
<b>P401</b>	Store in accordance with ...
<b>P402 + P404</b>	Store in a dry place. Store in a closed container.
<b>P403</b>	Store in a well-ventilated place.
<b>P403 + P233</b>	Store in a well-ventilated place. Keep container tightly closed.
<b>P403 + P235</b>	Store in a well-ventilated place. Keep cool.
<b>P405</b>	Store locked up.
<b>P406</b>	Store in a corrosion-resistant/... container with a resistant inner liner.
<b>P407</b>	Maintain air gap between stacks or pallets.
<b>P410</b>	Protect from sunlight.
<b>P410 + P403</b>	Protect from sunlight. Store in a well-ventilated place.
<b>P410 + P412</b>	Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122 °F.
<b>P411</b>	Store at temperatures not exceeding ... °C / ... °F.
<b>P413</b>	Store bulk masses greater than ... kg /... lbs at temperatures not exceeding ... °C /... °F.
<b>P420</b>	Store separately.
<b>Precautionary statements — disposal</b>	
<b>P501</b>	Dispose of contents/container to ...
<b>P502</b>	Refer to manufacturer or supplier for information on recovery or recycling.
<b>P503</b>	Refer to manufacturer/supplier/... for information on disposal/recovery/recycling.

## CNRS PRÉVENTION DU RISQUE CHIMIQUE

The Prevention of chemical risk unit is a service of CNRS Chemistry. It provides a scientific support to the CNRS and the chemical sector. The unit promotes chemical safety and protection of human health against dangerous chemicals.

The activities meet the needs of the scientific community, occupational health and safety managers, public agencies, industry and the general public.



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