



zandleven coatings

Within the EC directions are in force concerning the labelling of hazardous matters.
Also the Dutch paint industry are bound to these rules.
The way in which this information needs to be given is precisely described in the law.

How works the EU-GHS - labelling System

- GHS-symbols : these clearly indicate that certain risks are joined with the elaboration of the product.
- Signalword : 'DANGER' or 'WARNING' if applicable.
- H-phrases : these are warning phrases (H = hazard) and indicate the dangers linked to the product.
- P-phrases : these indicate what precautions (P = prevention) one must take to process the product in a safe way
- EUH-phrases : these phrases provide additional information on certain health, safety or environmental aspects.
- Attribution : of the dangerous substance or substances in the product is / are processed.
- ADR-symbol : these indicate in which hazard class the product is classified for transportation.



Ganzlin



Meaning of GHS Symbols



GHS01 - Explosive



GHS02 - Flammable



GHS03 - Oxidizing



GHS04 – Compressed Gas



GHS05 - Corrosive



GHS06 - Toxic



GHS07 - Irritant



GHS08 – Health hazard



GHS09 – Environmentally damaging



List of Hazard Statements (H-Phrases)

Physical hazards

Code	Text
H200	Unstable explosive
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
H220	Extremely flammable gas
H221	Flammable gas
H222	Extremely flammable material
H223	Flammable material
H224	Extremely flammable liquid and vapour
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H227	Combustible liquid
H228	Flammable solid
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 gas
H270	May cause or intensify fire; oxidizer
H271	May cause fire or explosion; strong oxidizer
H272	May intensify fire; oxidizer
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

Health hazards

Code	Text
H300	Fatal if swallowed
H301	Toxic if swallowed
H302	Harmful if swallowed
H303	May be harmful if swallowed
H304	May be fatal if swallowed and enters airways
H305	May be harmful if swallowed and enters airways
H310	Fatal in contact with skin
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H313	May be harmful in contact with skin
H314	Causes severe skin burns and eye damage



H315	Causes skin irritation
H316	Causes mild skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H330	Fatal if inhaled
H331	Toxic if inhaled
H332	Harmful if inhaled
H333	May be 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
H341	Suspected of causing genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H361	Suspected of damaging fertility or the unborn child
H362	May cause harm to breast-fed children
H370	Causes damage to organs
H371	May cause damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure

Environmental hazards

Code	Text
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful 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

**List of Precautionary Statements (P-Phrases)****General precautionary statements**

Code	Text
P101	If medical advice is needed, have product container or label at hand
P102	Keep out of reach of children
P103	Read label before use

Prevention precautionary statements

Code	Text
P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P211	Do not spray on an open flame or other ignition source
P220	Keep/Store away from clothing/.../combustible materials
P221	Take any precaution to avoid mixing with combustibles
P222	Do not allow contact with air
P223	Keep away from any possible contact with water, because of violent reaction and possible flash fire
P230	Keep wetted with ...
P231	Handle under inert gas
P232	Protect from moisture
P233	Keep container tightly closed
P234	Keep only in original container
P235	Keep cool
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/light/.../equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P244	Keep reduction valves free from grease and oil
P250	Do not subject to grinding/shock/.../friction
P251	Pressurized container – Do not pierce or burn, even after use
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P262	Do not get in eyes, on skin, or on clothing
P263	Avoid contact during pregnancy/while nursing
P264	Wash ... thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P282	Wear cold insulating gloves/face shield/eye protection
P283	Wear fire/flame resistant/retardant clothing
P284	Wear respiratory protection
P285	In case of inadequate ventilation wear respiratory protection



P231+P232	Handle under inert gas. Protect from moisture
P235+P410	Keep cool. Protect from sunlight

Response precautionary statements

Code	Text
P301	IF SWALLOWED:
P302	IF ON SKIN:
P303	IF ON SKIN (or hair):
P304	IF INHALED:
P305	IF IN EYES:
P306	IF ON CLOTHING:
P307	IF exposed:
P308	IF exposed or concerned:
P309	IF exposed or you feel unwell:
P310	Immediately call a POISON CENTER or doctor/physician
P311	Call a POISON CENTER or doctor/physician
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P313	Get medical advice/attention
P314	Get Medical advice/attention if you feel unwell
P315	Get immediate medical advice/attention
P320	Specific treatment is urgent (see ... on this label)
P321	Specific treatment (see ... on this label)
P322	Specific measures (see ... on this label)
P330	Rinse mouth
P331	Do NOT induce vomiting
P332	If skin irritation occurs:
P333	If skin irritation or a rash occurs:
P334	Immerse in cool water/wrap in wet bandages
P335	Brush off loose particles from skin
P336	Thaw frosted parts with lukewarm water. Do not rub affected areas
P337	If eye irritation persists:
P338	Remove contact lenses if present and easy to do. continue rinsing
P340	Remove victim to fresh air and keep at rest in a position comfortable for breathing
P341	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P342	If experiencing respiratory symptoms:
P350	Gently wash with soap and water
P351	Rinse continuously with water for several minutes
P352	Wash with soap and water
P353	Rinse skin with water/shower
P360	Rinse immediately contaminated clothing and skin with plenty of water before removing clothes
P361	Remove/Take off immediately all contaminated clothing
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P370	In case of fire:
P371	In case of major fire and large quantities:
P372	Explosion risk in case of fire
P373	DO NOT fight fire when fire reaches explosives
P374	Fight fire with normal precautions from a reasonable distance
P375	Fight fire remotely due to the risk of explosion
P376	Stop leak if safe to do so
P377	Leaking gas fire – do not extinguish unless leak can be stopped safely
P378	Use ... for extinction
P380	Evacuate area
P381	Eliminate all ignition sources if safe to do so
P390	Absorb spillage to prevent material damage
P391	Collect spillage



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P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+P334	IF ON SKIN: Immerse in cool water/wrap in wet bandages
P302+P350	IF ON SKIN: Gently wash with soap and water
P302+P352	IF ON SKIN: Wash with soap and water
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P306+P360	IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes
P307+P311	IF exposed: Call a POISON CENTER or doctor/physician
P308+P313	IF exposed or concerned: Get medical advice/attention
P309+P311	IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician
P332+P313	IF skin irritation occurs: Get medical advice/attention
P333+P313	IF skin irritation or a rash occurs: Get medical advice/attention
P335+P334	Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages
P337+P313	Get medical advice/attention
P342+P311	Call a POISON CENTER or doctor/physician
P370+P376	In case of fire: Stop leak if safe to do so
P370+P378	In case of fire: Use ... for extinction
P370+P380	In case of fire: Evacuate area
P370+P380+P375	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion
P371+P380+P375	In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion

Storage precautionary statements

Code	Text
P401	Store ...
P402	Store in a dry place
P403	Store in a well ventilated place
P404	Store in a closed container
P405	Store locked up
P406	Store in a corrosive resistant/... container with a resistant inner liner
P407	Maintain air gap between stacks/pallets
P410	Protect from sunlight
P411	Store at temperatures not exceeding ... °C/... °F
P412	Do not expose to temperatures exceeding 50 °C/122 °F
P413	Store bulk masses greater than ... kg/... lbs at temperatures not exceeding ... °C/... °F.
P420	Store away from other materials



P422	Store contents under ...
P402+P404	Store in a dry place. Store in a closed container
P403+P233	Store in a well ventilated place. Keep container tightly closed
P403+P235	Store in a well ventilated place. Keep cool
P410+P402	Protect from sunlight. Store in a well ventilated place
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
P411+P235	Store at temperatures not exceeding ... °C/... °F. Keep cool

Disposal precautionary statements

Code	Text
P501	Dispose of contents/container to ...



European Union Specific Hazard Statements (EUH-phrases)

Physical properties

Code	Text
EUH001	Explosive when dry
EUH006	Explosive with or without contact with air
EUH014	Reacts violently with water
EUH018	In use may form flammable/explosive vapour-air mixture
EUH019	May form explosive peroxides
EUH044	Risk of explosion if heated under confinement

Health properties

Code	Text
EUH029	Contact with water liberates toxic gas
EUH031	Contact with acids liberates toxic gas
EUH032	Contact with acids liberates very toxic gas
EUH066	Repeated exposure may cause skin dryness or cracking
EUH070	Toxic by eye contact
EUH071	Corrosive to the respiratory tract

Environmental properties

Code	Text
EUH059	Hazardous to the ozone layer

Other EU hazard statements

Code	Text
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 . 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.

(*) alternative in certain circumstances for EUH201



Meaning of ADR Symbols



Class 1: Explosives



Class 2: Gases



Class 3: Flammable liquids



Class 4: Flammable solids



Class 5: Oxidizing substances



Class 6: Toxic substances



Class 7: Radioactive substances



Class 8: Corrosive substances



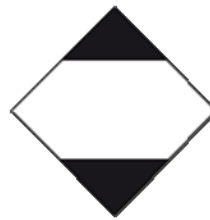
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Class 9: Miscellaneous dangerous substances



Attribute: Environmentally hazardous substances



Limited Quantity



These data have been drawn up to the best of our knowledge and were correct at the date of issue. However we cannot accept full responsibility, because de choice of products and circumstances during elaboration of the systems fall outside our judgement. This documentation sheet will not automatically be replaced in case of modification.