



GHS - Global Harmonised System

for Classification and labeling of Chemicals and their Mixtures

(Directive EC No. 1272/2008)

From December 1st 2010 GHS has been implemented by the European Union and is intended to standardise classification and labeling systems, worldwide. The system will classify chemical substances according to how dangerous they are and label them using standardised danger statements and pictograms, universally.

The decision to create the GHS was taken at the United Nations Conference in 1992 and was published in 2002. The European Union adapted the GHS to the new Regulation (EC No 1272/2008 (CPL - Classification labeling and Packaging of Substances and Mixtures), which abolished the Directive 67/548/EEC. The new regulations enter force on December 1st 2010 and new labels and safety sheets will be adopted to comply with these regulations.

What will I notice on the labels?

Risk phrases (R) now become Danger statements (H phrases).

Safety phrases (S) become Precautionary statements (P phrases).

The warning word that accompanied the pictogram will now disappear and is replaced by the single word Warning or Danger which will be put before the H and P phrases.

The pictograms have changed. These are now a white background with a red frame.

With the exception of the St Andrews Cross (Xn/Xi) most of the nine pictures previously used in the pictograms will still correspond to the well known hazard symbols but the EU have introduced GHS04, GHS07 and 08 as over.

DANGER

Highly flammable liquid and vapour Toxic if swallowed Toxic in contact with skin Toxic if inhaled Causes damage to organs. Keep away from heat/parkinson flames/shot surfaces - No smoking IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower - Stop locked up. Dispose of contents/container in accordance with local/regional/national/international regulations

Liquide et vapeurs très inflammables. Toxique en cas d'ingestion Toxique par contact cutané Toxique par inhalation. Risque élevé d'effets graves pour les organes. Tenez à l'écart de la chaleur/des étincelles/flammes nues/surfaces chaudes - Ne pas fumer. EN CAS D'INGESTION: appeler immédiatement un CENTRE ANTIPOISON ou un médecin. EN CAS DE CONTACT AVEC LA PEAU (ou les cheveux): éliminer immédiatement les vêtements contaminés. Rincer la peau à l'eau et se doucher. Garder sous clé. Éliminer le contenu/l'emballage dans conformément à la loi régionale/nationale/internationale réglementation

Flüssigkeit und Dampf leicht entzündbar. Giftig bei Verschlucken. Giftig bei Hautkontakt. Giftig bei Einatmen. Schädigt die Organe. Von Hitze/Unrunder Feuer/heißen Oberflächen fernhalten. Nicht rauchen. BEI VERSCHLUCKEN: Sofort GIFTINFORMATIONSZENTRUM oder Arzt anrufen. BEI KONTAKT MIT DER HAUT (oder dem Haar): Alle beschützten, getränkten Kleidungsstücke sofort ausziehen. Haut mit Wasser abwaschen/duschen. Unter Verschluss aufbewahren. Entsorgung des Inhaltsbehälter gemäß den regional/national/internationalen Regelungen

Líquido y vapores muy inflamables. Tóxico en caso de ingestión. Tóxico en contacto con la piel. Tóxico en caso de inhalación. Provoca daños en los órganos. Mantener alejado de fuentes de calor, chispas, llama abierta o superficies calientes. No fumar. EN CASO DE INGESTIÓN: Llamar inmediatamente a un CENTRO DE INFORMACIÓN toxicológica o a un médico. EN CASO DE CONTACTO CON LA PIEL (o el pelo): Quítese inmediatamente las prendas contaminadas. Aclararse la piel con agua o ducharse. Guardar bajo llave. Eliminar el contenido/l recipiente conforme a la local/regional/nacional/internacional/regulaciones



Methanol M4804

Méthanol 2.5L

Methanol

Metanol

ANALYTICAL REAGENT

Batch

Assay	99.8% min	Alkalinity(NH3)	<0.0005%
Distillation range(95%)	64.5 - 65.5°C	Organic impurities	Passes test
Weight per ml	0.791 - 0.782g	Water	<0.1%
Aldehydes & ketones	<0.005%	Non-volatile residue	<0.001%
Acidity (HCOOH)	<0.003%		

Expiry CH₃OH = 32.04

SURECHEM PRODUCTS LTD NEEDHAM MARKET
SUFFOLK ENGLAND TEL: +44 (0) 1449 722143






UN No. 1230
36.1 / III

CAS:
67-56-1

Will I receive old and new style labeled products?

For the products within the supply chain whose labels conform with the old classification system (Directive 67/548/EWG) these can be continued to be delivered for up to two years.

Deadlines for products labeled before GHS:

For re-labeling substances: 1st December 2012

For re-labeling mixtures: 1st December 2017



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A Simplified Comparison Table on GHS

Physical Hazards

Hazard classes and hazard categories*	Label elements NEW**	Label elements OLD
Explosives Unstable explosives Explosives, divisions 1.1 - 1.3 Self-reactive substances, mixture types, B Organic peroxides, types A, B	 H200 H201, H202 H203 H240, H241 H240 H241	 (R2, R3) Explosive
Explosives, division 1.4	 H204	No classification
Flammable gases, category 1 Flammable aerosols, category 1 Flammable liquids, category 1	 H220 H222 H224	 (R12) (R12) R12 Extremely flammable
Flammable liquids, category 2 Flammable solids, category 1 Flammable solids, category 2	 H225 H228 H228	 R11 (R11) (R11) Highly flammable
Flammable aerosols category 2 Flammable liquids, category 3	 H223 H226	No symbol (R10) R10 No classification flashpoint 56-60C Flammable
Pyrophoric liquids, category 1 Pyrophoric solids, category 1 Substances, mixtures which in contact with water emit flammable gases, category 1, 2, & 3	 H250 H250 H260 H261 H261	 R17 (R15) (R15) (R15) Highly flammable
Self reactive substances, mixtures type B Self-reactive substances, mixtures type C, D, E & F Self-heating substances, mixtures, category 1 and 2	 H241 H242 H242 H251 H252	 R12 R12 Highly flammable
Organic peroxides, type B Organic peroxides, type C & D Organic peroxides, type E & F	 H241 H242 H242	 R7 R7 Oxidising
Oxidising gases, category 1 Oxidising liquids categories 1, 2, & 3 Oxidising solids, categories 1, 2, & 3	 H270 H271, H272 H272 H271, H272 H272	 R8 R8, R9 R8, R9 Oxidising
Gases under pressure Compressed gases Liquefied gases Refrigerated liquefied gases Dissolved gases	 H280 H290 H281 H280	No classification
Corrosive to metals, category 1	 H290	No classification

* Annex (Regulation (EC) No.1272/2008 for all hazards categories with GHS pictograms

** Based on the translation of annexe VII Regulation (EC) No.1272/2008

*** Specific target Organ Toxicity

Health Hazards

Hazard classes and hazard categories*	Label elements NEW**	Label elements OLD
Acute toxicity, categories 1, 2 Oral Dermal Inhalation	 H300 H310 H330	 R28 R27 R26 Very Toxic
Acute toxicity, category 3 Oral Dermal Inhalation	 H301 H311 H331	 R25 R24 R23 Toxic
Germ cell mutagenicity, categories 1A, 1B Carcinogenicity, categories 1A, 1B Reproduction toxicity, category 1A, 1B ST01***, single exposure, category 1 ST01***, repeated exposure, category 1	 H340 H350 H360 H370 H372	 R46 R45, R49 R60, R61 R39 R48 Toxic
Respiratory sensitisation, category 1 Aspiration hazard category 1	 H334 H304	 R42 R65 Harmful
Germ cell mutagenicity, category 2 Carcinogenicity, category 2 Reproduction toxicity, category 2 ST02***, single exposure, category 2 ST02***, repeated exposure, category 2	 H341 H351 H361 H371 H373	 R68 R40 R62, R63 R68 R48 Harmful
Acute toxicity, category 4 Oral Dermal Inhalation	 H302 H312 H332	 R22 R21 R20 Irritant
Skin corrosion, categories 1A, 1B, 1C	 H314	 R34, R35 Corrosive
Serious eye damage, category 1	 H318	 R41 Irritant
Skin irritation, category 2 Eye irritation, category 2 Skin sensitisation, category 1 ST03*** after single exposure, category 3 Respiratory tract irritation	 H315 H319 H317 H335	 R38 R36 R43 R37 Irritant
Narcotic effects	 H336	No symbol R67 Irritant

Environmental Hazards

Hazard classes and hazard categories*	Label elements NEW**	Label elements OLD
Hazardous to the aquatic environment, acute, category 1 Hazardous to the aquatic environment, chronic category 1	 H400 H410	 R50 R50/53 Dangerous to the environment
Hazardous to the aquatic environment, chronic category 2	 H411	 R51/R53 Dangerous to the environment