DyStar

DyStar Colours Deutschland GmbH, Postfach 10 04 80, D-51304 Leverkusen

| Ihre Zeichen, Ihre Nachricht vom | Unser Zeichen, unsere Nachricht vom | Telefon Durchwahl | Leverkusen |
|---|---|---|---|
| | Wb | ++49 (0) 2 14 30 - 72437 | 2011-02-22 |

# Labelling according to GHS
# Implementation of Regulation (EC) No. 1272/2008

On 3 September 2008, the European Parliament adopted Regulation (EC) No. 1272/2008 "on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006".
With this so-called CLP Regulation the European Community takes over the principle that is worldwide known as GHS (Globally Harmonized System of Classification and Labelling of Chemicals).

GHS includes a worldwide standard set of criteria for the classification and labelling of chemicals. This is a unification of international labelling requirements in analogy to the transports regulations. Based on a building block system it will be decided at national level which hazard classes and categories to be considered legally binding.

Please note that there will be new pictograms (formerly hazard symbols). Furthermore the known R(isk) phrases are presented in the future as H (azard) phrases, former S(afety) phrases will be P(recautionary) phrases. For details on these changes we refer to the compilation of the German chemical association VCI (Verband der Chemischen Industrie e.V.), which we attach to this letter.

Since some of the criteria for classification have changed, it is possible that more substances will be classified as toxic and marked with skull and crossbones. Whereas to date hazard categories (levels) are existing only for certain hazard classes (Examples: T / T+, C with R34, R35), there are now several categories for all hazard classes.

Known so-called combination phrases for hazards are being considered as separate hazard categories and are transferred to separate H-phrases, for example R20/22 "Harmful by inhalation and if swallowed." to H-phrases H302 "Harmful if swallowed." and H332 "Harmful if inhaled." The CLP Regulation only recommends the assignment of the P-phrases per single H-phrase, and there are no exact guidelines for the use of P-phrases with multiple H-phrases. In cases of multiple hazard classes that are relevant for

classification, a brief and comprehensive summary of the measures is difficult. Significant differences in the use of P-phrases between the various companies are expected. Overall, we assume a significant increase in size of the label content.

This new labelling requirement is binding for GHS in Europe for substances to 01/12/2010, stocks can be sold with the old labelling until 12/01/2011. Mixtures (preparations) have to be labelled according to GHS from 01/06/2015, already labelled stocks can be sold till 06/01/2017.

Parallel to this change in labelling, the safety data sheet directive was updated and adapted to REACh. Since 01/12/2010 new safety data sheets have to match the format specified in Regulation (EC) No. 1907/2006 - last amended by Regulation (EU) No. 453/2010. Existing safety data sheets - both for substances and for mixtures - are to be reviewed and updated within the next 2 years.

DyStar markets - apart from a few exceptions - only mixtures. So only few of our products are therefore already labelled according to GHS. Since, however, additional information is required in the new format for mixtures as well, the new GHS rules affect all DyStar safety data sheets and hence our customers. Our safety data sheets are currently being converted to the new format. Customers who purchased the relevant product within the last 12 months will get these new SDSs immediately, all other customers with the next order. Please understand that due to the large number of products this revision will take some time unfortunately. You will receive within that time period both - already updated SDSs and those whose review and update have not yet occurred.

With best regards,

DyStar Colours Deutschland GmbH

i.V. Weber

Dr. Anette Weber
Director
Technology Ecology

i.V. Lorkowski

Dr. Christine Lorkowski
REACh, Customer Services, PDM
Technology Ecology

Attachment:
Globally Harmonised System of Classification and Labelling of Chemicals -
Comparison of Hazard Symbol and Phrases
Compiled by the German VCI (Verband der Chemischen Industrie e.V.)

# GHS

GLOBALLY HARMONISED SYSTEM OF

IN COMPARIS

## PHYSICAL HAZARDS

| HAZARD SYMBOLS OLD | | GHS HAZARD CLASSES AND CATEGORIES[2] | HAZARD PICTOGRAMS NEW[3] | |
|---|---|---|---|---|
| EXPLOSIVE | (R2, R3) | Explosives<br>■ Unstable Explosive<br>■ Explosive, Div. 1.1 - 1.3<br>Self-reactive substances and mixtures, Types A, B<br>Organic peroxides, Types A, B | DANGER | H200<br>H201, H202, H203<br>H240, H241<br>H240, H241 |
| No Labelling | | Explosive, Div. 1.4 | WARNING | H204 |
| HIGHLY EXTREMLY FLAMMABLE | (R12)<br>(R12)<br>R12 | Flammable gases, Cat. 1<br>Flammable aerosols, Cat. 1<br>Flammable liquids, Cat. 1 | DANGER | H220<br>H222<br>H224 |
| | R11<br>(R11)<br>(R11) | Flammable liquids, Cat. 2<br>Flammable solids, Cat. 1<br>Flammable solids, Cat. 2 | WARNING | H225<br>H228<br>H228 |
| FLAMMABLE | No symbol<br>(R10)<br>R10 | Flammable aerosols, Cat. 2<br>Flammable liquids, Cat. 3 | WARNING | H223<br>H226 |
| No Labelling (Flash point 56 – 60° C) | | | | |
| HIGHLY FLAMMABLE | R17<br>R17<br>(R15)<br>(R15)<br>(R15) | Pyrophoric liquids, Cat. 1<br>Pyrophoric solids, Cat. 1<br>Substances and mixtures which in contact with water emit flammable gases, Cat. 1, 2 and Cat. 3 | DANGER | H250<br>H250<br>H260<br>H261<br>H261 |
| EXTREMLY FLAMMABLE | R12<br>R12 | Self-reactive substances and mixtures, Type B<br>Self-reactive substances and mixtures, Types C, D and Types E, F<br>Self-heating substances and mixtures, Cat. 1 and Cat. 2 | WARNING | H241<br>H242<br>H242<br>H251<br>H252 |
| OXIDISING | R7<br>R7 | Organic peroxides, Type B<br>Organic peroxides, Types C, D<br>Organic peroxides, Types E, F | | H241<br>H242<br>H242 |
| OXIDISING | R8<br>R8, R9<br>R8, R9 | Oxidising gases, Cat. 1<br>Oxidising liquids, Cat. 1, 2 and Cat. 3<br>Oxidising solids, Cat. 1, 2 and Cat. 3 | DANGER<br>WARNING | H270<br>H271, H272<br>H272<br>H271, H272<br>H272 |
| No Labelling | | Gases under pressure<br>■ Compressed gases<br>■ Liquefied gases<br>■ Refrigerated liquefied gases<br>■ Dissolved gases | WARNING | H280<br>H280<br>H281<br>H280 |
| No Labelling | | Substances and mixtures corrosive to metals, Cat. 1 | WARNING | H290 |

[1] Comparison of assignments of hazards with labelling elements symbol (EU old) and pictogram (GHS).

# ON: THE HAZARD SYMBOLS OLD (EU) AND NEW (GHS)[1]

| | HAZARD SYMBOLS OLD | | GHS HAZARD CLASS AND CATEGORIES[2] | HAZARD PICTOGRAMS | NEW[3] |
|---|---|---|---|---|---|
| HEALTH HAZARDS | VERY TOXIC | R28<br>R27<br>R26 | Acute toxicity, Cat. 1, 2<br>■ Oral<br>■ Dermal<br>■ Inhalation | DANGER | H300<br>H310<br>H330 |
| | TOXIC | R25<br>R24<br>R23 | Acute toxicity, Cat. 3<br>■ Oral<br>■ Dermal<br>■ Inhalation | | H301<br>H311<br>H331 |
| | TOXIC | R46<br>R45, R49<br>R60, R61<br>R39<br>R48 | Germ cell mutagenicity, Cat. 1A, 1B<br>Carcinogenicity, Cat. 1A, 1B<br>Reproductive toxicity, Cat. 1A, 1B<br>Specific target organ toxicity - single exposure, Cat. 1<br>Specific target organ toxicity - repeated exposure, Cat. 1 | DANGER | H340<br>H350<br>H360<br>H370<br>H372 |
| | HARMFUL | R42<br>R65 | Respiratory sensitisation, Cat. 1<br>Aspiration hazard, Cat. 1 | | H334<br>H304 |
| | | R68<br>R40<br>R62, R63<br>R68<br>R48 | Germ cell mutagenicity, Cat. 2<br>Carcinogenicity, Cat. 2<br>Reproductive toxicity, Cat. 2<br>Specific target organ toxicity - single exposure, Cat. 2<br>Specific target organ toxicity - repeated exposure, Cat. 2 | WARNING | H341<br>H351<br>H361<br>H371<br>H373 |
| | | R22<br>R21<br>R20 | Acute toxicity, Cat. 4<br>■ Oral<br>■ Dermal<br>■ Inhalation | WARNING | H302<br>H312<br>H332 |
| | CORROSIVE | R34, R35 | Skin corrosivity, Cat. 1A, 1B, 1C | DANGER | H314 |
| | IRRITANT | R41 | Serious eye damage, Cat. 1 | | H318 |
| | IRRITANT | R38<br>R36<br>R43<br><br>R37 | Skin irritant, Cat. 2<br>Eye irritation, Cat. 2<br>Skin sensitisation, Cat. 1<br>Specific target organ toxicity - single exposure, Cat. 3<br>■ Respiratory tract irritation | WARNING | H315<br>H319<br>H317<br><br>H335 |
| | No symbol | R67 | ■ Narcotic effect | | H336 |
| ENVIRONMENTAL HAZARDS | DANGEROUS FOR THE ENVIRONMENT | R50<br>R50/53 | Acute aquatic hazard, Cat. 1<br>Chronic aquatic hazard, Cat. 1 | WARNING | H400<br>H410 |
| | | R51/53 | Chronic aquatic hazard, Cat. 2 | | H411 |

[2] Source: Annex I of Regulation (EC) No 1272/2008.

[3] Source: Annex V of Regulation (EC) No 1272/2008.