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**Committee of Experts on the Transport of Dangerous Goods
and on the Globally Harmonized System of Classification
and Labelling of Chemicals**

17 June 2013

**Sub-Committee of Experts on the
Transport of Dangerous Goods**

Forty-third session

Geneva, 24– 28 June 2013

Item 11 (a) of the provisional agenda

**Issues relating to the Globally Harmonized System
of Classification and Labelling of Chemicals:
Corrosivity criteria**

**Sub-Committee of Experts on the Globally Harmonized
System of Classification and Labelling of Chemicals**

Twenty-fifth session

Geneva, 1 – 3 July 2013

Item 2 (c) of the provisional agenda

**Classification criteria and hazard communication:
Corrosivity criteria**

Harmonisation of the skin corrosion classification criteria in the UN Model Regulations on the Transport of Dangerous Goods with those in GHS

Transmitted by the European Chemical Industry Council (CEFIC)

Annex I

**Comparison of classifications results for butylamine; diethylamine;
triethylamine; sodium hydroxide; (S)-2-chloropropionic acid;
3,3'-iminodipropylamine; acetic acid and phosphoric acid in Japan, the
Republic of Korea, New Zealand, European Union and the UN Model
Regulations on the Transport of Dangerous Goods**

Butylamine

List Name	CAS	Chemical Data	Chemical Name
		<p>P363: Wash contaminated clothing before reuse. P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P321: Specific treatment (see label). P330: Rinse mouth. P370+P378: In case of fire: Use appropriate media for extinction. Storage: P403+P235: Store in a well-ventilated place. Keep cool. P405: Store locked up. Disposal: P501: Dispose of contents/container in accordance with local/regional/national/international regulations.</p>	
Japan - GHS - SV - Serious Eye Damage/Eye Irritation	109-73-9	Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage.	n-ブチルアミン
Japan - GHS - SV - Skin Corrosion/Irritation	109-73-9	Skin corrosion/irritation - Category 1: H314 Causes severe skin burns and eye damage.	n-ブチルアミン
Japan - GHS - SV - Specific Target Organ Toxicity - Repeated Exposure	109-73-9	Specific target organ toxicity - Repeated exposure - Category 1: H372 Causes damage to respiratory system through prolonged or repeated exposure.	n-ブチルアミン
Japan - GHS - SV - Specific Target Organ Toxicity - Single Exposure	109-73-9	Specific target organ toxicity - Single exposure - Category 1: H370 Causes damage to respiratory system.	n-ブチルアミン
Republic of Korea - MOEL - GHS - SV - Acute Toxicity - Dermal	109-73-9	Acute toxicity - Dermal - Category 3: H311 Toxic in contact with skin.	n-부틸아민
Republic of Korea - MOEL - GHS - SV - Acute Toxicity - Oral	109-73-9	Acute toxicity - Oral - Category 3: H301 Toxic if swallowed.	n-부틸아민
Republic of Korea - MOEL - GHS - SV - Composite	109-73-9	Flammable liquids - Category 2: H225 Highly flammable liquid and vapour.; Acute toxicity - Oral - Category 3: H301 Toxic if swallowed.; Acute toxicity - Dermal - Category 3: H311 Toxic in contact with skin.; Skin corrosion/irritation - Category 1: H314 Causes severe skin burns and eye damage.; Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage.; Specific target organ toxicity - Single exposure - Category 1: H370 Causes damage to respiratory system.; Specific target organ toxicity - Repeated exposure - Category 1: H372 Causes damage to respiratory system through prolonged or repeated exposure	n-부틸아민
Republic of Korea - MOEL - GHS - SV - Flammable Liquids	109-73-9	Flammable liquids - Category 2: H225 Highly flammable liquid and vapour.	n-부틸아민
Republic of Korea - MOEL - GHS - SV - Labelling	109-73-9	<p>Symbols: Flame, Corrosion, Skull and crossbones, Health hazard Signal Word: Danger Hazards: H225: Highly flammable liquid and vapour. H301: Toxic if swallowed. H311: Toxic in contact with skin. H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage. H370: Causes damage to organs. H372: Causes damage to organs through prolonged or repeated exposure. Prevention: P233: Keep container tightly closed. P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P240: Ground/Bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P280: Wear protective gloves/protective clothing/eye protection/face protection. P260: Do not breathe dust/fume/gas/mist/vapours/spray. P264: Wash thoroughly after handling. P270: Do not eat, drink or smoke when using this product. Response: P308+P313: IF exposed or concerned: Get medical advice/attention. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302+P352: IF ON SKIN: Wash with plenty of water. P310: Immediately call a POISON CENTER or doctor/physician. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P363: Wash contaminated clothing before reuse. P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P321: Specific treatment (see label). P330: Rinse mouth. P370+P378: In case of fire: Use appropriate media for extinction. Storage: P403+P235: Store in a well-ventilated place. Keep cool. P405: Store locked up. Disposal: P501: Dispose of contents/container in accordance with local/regional/national/international regulations.</p>	n-부틸아민
Republic of Korea - MOEL - GHS - SV - Serious Eye Damage/Eye Irritation	109-73-9	Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage.	n-부틸아민
Republic of Korea - MOEL - GHS - SV - Skin Corrosion/Irritation	109-73-9	Skin corrosion/irritation - Category 1: H314 Causes severe skin burns and eye damage.	n-부틸아민

Butylamine

List Name	CAS	Chemical Data	Chemical Name
Republic of Korea - MOEL - GHS - SV - Specific Target Organ Toxicity - Repeated Exposure	109-73-9	Specific target organ toxicity - Repeated exposure - Category 1: H372 Causes damage to respiratory system through prolonged or repeated exposure.	n-부틸아민
Republic of Korea - MOEL - GHS - SV - Specific Target Organ Toxicity - Single Exposure	109-73-9	Specific target organ toxicity - Single exposure - Category 1: H370 Causes damage to respiratory system.	n-부틸아민
Republic of Korea - NEMA - GHS - SV - Composite	109-73-9	Flammable liquids - Category 2: H225 Highly flammable liquid and vapour.	모노부틸아민
Republic of Korea - NEMA - GHS - SV - Flammable Liquids	109-73-9	Flammable liquids - Category 2: H225 Highly flammable liquid and vapour.	모노부틸아민
Republic of Korea - NEMA - GHS - SV - Labelling	109-73-9	Symbol: Flame Signal Word: Danger Hazard: H225: Highly flammable liquid and vapour. Prevention: P233: Keep container tightly closed. P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P240: Ground/Bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P280: Wear protective gloves/protective clothing/eye protection/face protection. Response: P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P370+P378: In case of fire: Use appropriate media for extinction. Storage: P403+P235: Store in a well-ventilated place. Keep cool. Disposal: P501: Dispose of contents/container in accordance with local/regional/national/international regulations.	모노부틸아민
New Zealand - GHS - SV - Acute Toxicity - Dermal	109-73-9	Acute toxicity - Dermal - Category 3: H311 Toxic in contact with skin. (Approval: HSR001090)	1-Butanamine
New Zealand - GHS - SV - Acute Toxicity - Inhalation	109-73-9	Acute toxicity - Inhalation - Category 2: H330 Fatal if inhaled. (Approval: HSR001090)	1-Butanamine
New Zealand - GHS - SV - Acute Toxicity - Oral	109-73-9	Acute toxicity - Oral - Category 4: H302 Harmful if swallowed. (Approval: HSR001090)	1-Butanamine
New Zealand - GHS - SV - Composite	109-73-9	Flammable liquids - Category 2: H225 Highly flammable liquid and vapour. (Approval: HSR001090); Corrosive to Metals - Category 1: H290 May be corrosive to metals. (Approval: HSR001090); Acute toxicity - Oral - Category 4: H302 Harmful if swallowed. (Approval: HSR001090); Acute toxicity - Dermal - Category 3: H311 Toxic in contact with skin. (Approval: HSR001090); Acute toxicity - Inhalation - Category 2: H330 Fatal if inhaled. (Approval: HSR001090); Skin corrosion/irritation - Category 1B: H314 Causes severe skin burns and eye damage. (Approval: HSR001090); Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage. (Approval: HSR001090); Hazardous to aquatic environment - acute hazard - Category 3: H402 Harmful to aquatic life. (Approval: HSR001090); Terrestrial Vertebrate Ecotoxicity - Category 2: H432 Toxic to terrestrial vertebrates (Approval: HSR001090)	1-Butanamine
New Zealand - GHS - SV - Corrosive to Metals	109-73-9	Corrosive to Metals - Category 1: H290 May be corrosive to metals. (Approval: HSR001090)	1-Butanamine
New Zealand - GHS - SV - Flammable Liquids	109-73-9	Flammable liquids - Category 2: H225 Highly flammable liquid and vapour. (Approval: HSR001090)	1-Butanamine
New Zealand - GHS - SV - Hazardous to the Aquatic Environment - Acute	109-73-9	Hazardous to aquatic environment - acute hazard - Category 3: H402 Harmful to aquatic life. (Approval: HSR001090)	1-Butanamine
New Zealand - GHS - SV - Hazardous to the Terrestrial Environment - Vertebrate	109-73-9	Terrestrial Vertebrate Ecotoxicity - Category 2: H432 Toxic to terrestrial vertebrates (Approval: HSR001090)	1-Butanamine
New Zealand - GHS - SV - Labelling	109-73-9	Approval: HSR001090 Symbols: Flame, Corrosion, Skull and crossbones Signal Word: Danger Hazards: H225: Highly flammable liquid and vapour. H290: May be corrosive to metals. H302: Harmful if swallowed. H311: Toxic in contact with skin. H330: Fatal if inhaled. H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage. H402: Harmful to aquatic life. H432: Toxic to terrestrial vertebrates Prevention: P233: Keep container tightly closed. P234: Keep only in original container. P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P240: Ground/Bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. P284: Wear respiratory protection. P260: Do not breathe dust/fume/gas/mist/vapours/spray.	1-Butanamine

