

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 28/09/2017 Revision date: : Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : Custom Chlorobenzenes Mix

Product code : AL0-130174
Product group : Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Laboratory use Industrial/Professional use spec : Industrial

For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Phenova 6390 Joyce Dr. Suite 100 80403 Golden, CO - United States T 1-866-942-2978 - F 1-866-283-0269 info@phenova.com - www.phenova.com

1.4. Emergency telephone number

Emergency number : ChemTel Assistance (US/Canada) 1-800-255-3924

ChemTel Assistance (International) +1 813-248-0585

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Carc. 1B H350 Aquatic Chronic 3 H412

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Carc.Cat.2; R45 F; R11 R52/53

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS08

Signal word (CLP) : Danger

Hazard statements (CLP) : H350 - May cause cancer

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP) : P370+P378 - In case of fire: Use media other than water to extinguish

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308+P313 - IF exposed or concerned: Get medical advice/attention

P403+P235 - Store in a well-ventilated place. Keep cool

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P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Methylene Chloride (Component)	(CAS-No.) 75-09-2 (EC-No.) 200-838-9 (EC Index-No.) 602-004-00-3	99.3	Carc. 2, H351
Benzal Chloride (Component)	(CAS-No.) 98-87-3 (EC-No.) 202-709-2 (EC Index-No.) 602-058-00-8	0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Inhalation), H330 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Irrit. 2, H315 Eye Dam. 1, H318 Carc. 2, H351 STOT SE 3, H335
benzyl chloride, inhibited (Component)	(CAS-No.) 100-44-7 (EC-No.) 202-853-6 (EC Index-No.) 602-037-00-3	0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Dam. 1, H318 Carc. 1B, H350 STOT SE 3, H335 STOT RE 2, H373
pentachlorobenzene (Component)	(CAS-No.) 608-93-5 (EC-No.) 210-172-0 (EC Index-No.) 602-074-00-5	0.1	Flam. Sol. 1, H228 Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,4,5-tetrachlorobenzene (Component)	(CAS-No.) 95-94-3 (EC-No.) 202-466-2	0.1	Aquatic Chronic 2, H411
1,2,3,4-tetrachlorobenzene (Component)	(CAS-No.) 634-66-2 (EC-No.) 211-214-0	0.1	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
1,2,3,5-tetrachlorobenzene (Component)	(CAS-No.) 634-90-2 (EC-No.) 211-217-7	0.1	Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411
trichloromethylbenzene (Component)	(CAS-No.) 98-07-7 (EC-No.) 202-634-5 (EC Index-No.) 602-038-00-9	0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Dam. 1, H318 Carc. 1B, H350 STOT SE 3, H335 Aquatic Chronic 3, H412

SECTION 4: First aid measures

4.1.	Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get

medical advice/attention.

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Do not use a heavy water stream.

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5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up in absorbent material. Collect spillage.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation

smoking and when leaving work. Provide good ventilation in process area to prevent formatic of vapour. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Hygiene measures : Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Keep container tightly closed and in a well-ventilated

place. Keep away from any flames or sparking source.

Incompatible materials : Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

trichloromethylbenzene (98-	07-7)	
Belgium	Short time value (mg/m³)	0.81 mg/m³ (Benzotrichlorure; Belgium; Short time value)
Belgium	Short time value (ppm)	0.1 ppm (Benzotrichlorure; Belgium; Short time value)
Italy - Portugal - USA ACGIH	ACGIH Ceiling (ppm)	0.1 ppm (Benzotrichloride; USA; Momentary value; TLV - Adopted Value)
Methylene Chloride (75-09-2)		
Belgium	Limit value (mg/m³)	177 mg/m³ (Chlorure de méthylène; Belgium; Time- weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	50 ppm (Chlorure de méthylène; Belgium; Time- weighted average exposure limit 8 h)
France	VLE (mg/m³)	356 mg/m³ (Dichlorométhane; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VLE (ppm)	100 ppm (Dichlorométhane; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VME (mg/m³)	178 mg/m³ (Dichlorométhane; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	50 ppm (Dichlorométhane; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)

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Methylene Chloride (75-09-2)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50 ppm (Dichloromethane (Methylene chloride); USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
United Kingdom	WEL TWA (mg/m³)	350 mg/m³ Dichloromethane; United Kingdom; Time- weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	100 ppm Dichloromethane; United Kingdom; Time- weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m³)	1060 mg/m³ Dichloromethane; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	300 ppm Dichloromethane; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)

Exposure controls

: Either local exhaust or general room ventilation is usually required. Appropriate engineering controls

Personal protective equipment : Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety

glasses.







Hand protection : Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical

penetration.

Eye protection : Chemical goggles or safety glasses. Safety glasses.

Skin and body protection Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin

contact

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical propertie

Physical state : Liquid Colour : Colourless. Odour : characteristic. рΗ : No data available Melting point : No data available : No data available Freezing point No data available Boiling point : No data available Flash point Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : Non flammable Relative density : No data available : No data available Solubility Explosive properties : No data available Oxidising properties No data available Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reaction

Not established.

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10.4.	Conditions	to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

Acute toxicity : Not classified

Acute toxicity	: Not classified
Benzal Chloride (98-87-3)	
LD50 oral rat	3249 mg/kg
ATE CLP (oral)	500 mg/kg bodyweight
ATE CLP (gases)	100 ppmv/4h
ATE CLP (vapours)	0.5 mg/l/4h
ATE CLP (dust,mist)	0.05 mg/l/4h
benzyl chloride, inhibited (100-44-7)	
LD50 oral rat	1230 mg/kg (Rat)
LC50 inhalation rat (mg/l)	0.74 mg/l/4h (Rat)
ATE CLP (oral)	1230 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h
ATE CLP (vapours)	0.74 mg/l/4h
ATE CLP (dust,mist)	0.74 mg/l/4h
pentachlorobenzene (608-93-5)	
LD50 oral rat	1080 mg/kg (Rat)
ATE CLP (oral)	1080 mg/kg bodyweight
1,2,3,4-tetrachlorobenzene (634-66-2)	
LD50 oral rat	1167 mg/kg (Rat)
ATE CLP (oral)	1167 mg/kg bodyweight
1,2,3,5-tetrachlorobenzene (634-90-2)	
LD50 oral rat	1727 mg/kg (Rat)
ATE CLP (oral)	1727 mg/kg bodyweight
1,2,4,5-tetrachlorobenzene (95-94-3)	
LD50 oral rat	3105 mg/kg (Rat)
ATE CLP (oral)	3105 mg/kg bodyweight
trichloromethylbenzene (98-07-7)	
LD50 oral rat	1300 mg/kg (Rat)
LD50 dermal rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	4000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	0.5 mg/l/4h (Rat)
ATE CLP (oral)	1300 mg/kg bodyweight
ATE CLP (dermal)	4000 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h
ATE CLP (vapours)	0.5 mg/l/4h
ATE CLP (dust,mist)	0.5 mg/l/4h
Methylene Chloride (75-09-2)	
LD50 oral rat	> 2000 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Literature study)
Skin corrosion/irritation	: Not classified
	Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
	Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
	Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
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Based on available data, the classification criteria are not met

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Carcinogenicity : May cause cancer.

May cause cancer

Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Based on available data, the classification criteria are not met

STOT-repeated exposure : Not classified

Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Based on available data, the classification criteria are not met

Potential adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

benzyl chloride, inhibited (100-44-7)	
LC50 fish 2	4 mg/l (LC50; 96 h)
EC50 Daphnia 2	6.1 mg/l (EC50; 48 h)
Threshold limit algae 1	50 mg/l (EC0; 192 h)
1,2,3,4-tetrachlorobenzene (634-66-2)	
LC50 fish 1	0.365 mg/l (LC50; 96 h)
EC50 Daphnia 1	0.091 mg/l (EC50)
EC50 other aquatic organisms 1	1.9 mg/l
trichloromethylbenzene (98-07-7)	
LC50 fish 1	4140 mg/l (LC50; 48 h; Leuciscus idus)
EC50 Daphnia 1	50 mg/l (EC50; 24 h)
Threshold limit algae 2	> 100 mg/l (EC0; 192 h)
Methylene Chloride (75-09-2)	
LC50 fish 1	193 mg/l (LC50; 96 h; Pimephales promelas)

168.2 mg/l (EC50; 48 h)

12.2. Persistence and degradability

EC50 Daphnia 1

Custom Chlorobenzenes Mix	
Persistence and degradability	May cause long-term adverse effects in the environment.
benzyl chloride, inhibited (100-44-7)	
Persistence and degradability	Readily biodegradable in water.
pentachlorobenzene (608-93-5)	
Persistence and degradability	Not readily biodegradable in water. Biodegradability in soil: no data available.
1,2,3,4-tetrachlorobenzene (634-66-2)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Adsorbs into the soil.
1,2,3,5-tetrachlorobenzene (634-90-2)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Adsorbs into the soil.
1,2,4,5-tetrachlorobenzene (95-94-3)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Adsorbs into the soil.
trichloromethylbenzene (98-07-7)	
Persistence and degradability	Readily biodegradable in water. Hydrolysis in water.
Methylene Chloride (75-09-2)	
Persistence and degradability	Not readily biodegradable in water. Biodegradable in the soil.

12.3. Bioaccumulative potential

Custom Chlorobenzenes Mix	
Bioaccumulative potential	Not established.
benzyl chloride, inhibited (100-44-7)	
BCF other aquatic organisms 1	5.7 ppm (BCF; 24 h; Lamellibranchiata)
BCF other aquatic organisms 2	3.1 - 4.2 ppm (BCF; 24 h; Lamellibranchiata)
Log Pow	2.3 (Experimental value)

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benzyl chloride, inhibited (100-44-7)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
pentachlorobenzene (608-93-5)	
BCF fish 1	3000 (BCF; 72 h)
BCF fish 2	6840 (BCF)
BCF other aquatic organisms 1	16000 (BCF)
BCF other aquatic organisms 2	4000 (BCF; 24 h)
Log Pow	4.88 - 5.69
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
1,2,3,4-tetrachlorobenzene (634-66-2)	
BCF fish 1	5200 (BCF)
BCF fish 2	489 - 1710 (BCF)
BCF other aquatic organisms 1	> 5012 (BCF)
Log Pow	4.46 - 5.02
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
1,2,3,5-tetrachlorobenzene (634-90-2)	
BCF fish 1	1800 (BCF)
BCF fish 2	72000 (BCF)
BCF other aquatic organisms 1	3000 (BCF)
Log Pow	4.46 - 4.92
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
1,2,4,5-tetrachlorobenzene (95-94-3)	
BCF fish 1	13000 (BCF)
BCF fish 2	1650 - 4830 (BCF)
BCF other aquatic organisms 1	> 5012 (BCF)
Log Pow	4.5 - 4.98
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
trichloromethylbenzene (98-07-7)	
BCF other aquatic organisms 1	540 (BCF)
Log Pow	2.92 (Calculated)
Bioaccumulative potential	Bioaccumable.
Methylene Chloride (75-09-2)	
BCF fish 1	2 - 40 (BCF)
Log Pow	1.25 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
12.4. Mobility in soil	
benzyl chloride, inhibited (100-44-7)	
Surface tension	0.038 N/m (20 °C)
trichloromethylbenzene (98-07-7)	
Surface tension	0.038 N/m (20 °C)
Methylene Chloride (75-09-2)	
Surface tension	0.028 N/m (20 °C)
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
12.5 Results of PBT and vPvB assessment	may be narrina to plant growth, blooming and trult formation.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 2810

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UN-No. (IATA)	: 2810
UN-No. (IMDG)	: 2810
UN-No. (ADN)	: 2810

14.2. UN proper shipping name

Proper Shipping Name (ADR) : TOXIC LIQUID, ORGANIC, N.O.S.

Proper Shipping Name (IATA) : Toxic liquid, organic, n.o.s.

Proper Shipping Name (IMDG) : TOXIC LIQUID, ORGANIC, N.O.S.

Proper Shipping Name (IMDG) : TOXIC LIQUID, ORGANIC, N.O.S.

Proper Shipping Name (ADN) : TOXIC LIQUID, ORGANIC, N.O.S.

Transport document description (ADR) : UN 2810 TOXIC LIQUID, ORGANIC, N.O.S., 6.1, III, (E)

14.3. Packing group

 Class (ADR)
 : 6.1

 Classification code (ADR)
 : T1

 Class (IATA)
 : 6.1

 Class (IMDG)
 : 6.1

 Class (ADN)
 : 6.1

 Classification code (ADN)
 : T1

 Danger labels (ADR)
 : 6.1



Division (IATA) : 6.1 Hazard labels (IATA) : 6.1



Danger labels (IMDG) : 6.1



Danger labels (ADN) : 6.1



14.4. Packing group

Packing group (ADR) : III
Packing group (IATA) : III
Packing group (IMDG) : III
Packing group (ADN) : III

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 60
Classification code (ADR) : T1

Orange plates

60 2810

Special provisions (ADR) : 274, 614

Transport category (ADR) : 2
Tunnel restriction code (ADR) : E

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Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
EAC code : 2X
APP code : B

14.6.2. Transport by sea

Special provisions (IMDG) : 223, 274

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P001, LP01

IBC packing instructions (IMDG) : IBC03

Tank instructions (IMDG) : T7

Tank special provisions (IMDG) : TP1, TP28
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-A
Stowage category (IMDG) : A

Properties and observations (IMDG) : Toxic if swallowed, by skin contact or by inhalation.

14.6.3. Air transport

CAO packing instructions (IATA) : 663
CAO max net quantity (IATA) : 220L
PCA packing instructions (IATA) : 655
PCA Limited quantities (IATA) : Y642
PCA limited quantity max net quantity (IATA) : 2L
PCA max net quantity (IATA) : 60L
PCA Excepted quantities (IATA) : E1

Special provisions (IATA) : A3, A4, A137

ERG code (IATA) : 6L

14.6.4. Inland waterway transport

Special provisions (ADN) : 274, 614, 802

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EP, TOX, A

Ventilation (ADN) : VE02
Number of blue cones/lights (ADN) : 0
Carriage prohibited (ADN) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

Water hazard class (WGK) : 3 - severe hazard to waters

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

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Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 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.

Other information : None.

PHV SDS EU

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