



Symphony C

Version 1.1

Revision Date 11-06-2012

Print Date 11-09-2012

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Commercial Product Name : Symphony C
Mat.-No./ Genisys-No. : 05279470001

Ventana material number :

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

Recommended restrictions : For professional users only.
on use

1.3 Details of the supplier of the safety data sheet

Company : Roche Diagnostics Limited
Charles Avenue
Burgess Hill
RH15 9RY West Sussex

E-mail address : -
Telephone : +44 1444 256000
Telefax : +44 1444 256239
Responsible Department :
In case of emergencies: : Health, Safety & +44 1444 256500 or +44
(Roche Diagnostics Ltd.) Environment 7802 260498
- +44 1444 256561 or +44
Product Safety / Vigilance 7710 391653
-

Toxicology 24Hr help-line: : NPIS: +44 844 892 0111
Health Advice 24Hr help-line: NHS Direct: +44 845 4647
NHS 24: +44 8454 242424

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour.

Classification (67/548/EEC, 1999/45/EC)

Highly flammable R11: Highly flammable.

2.2 Label elements


Labelling (REGULATION (EC) No 1272/2008)

Symphony C

Version 1.1

Revision Date 11-06-2012

Print Date 11-09-2012

Hazard pictograms	:		
Signal word	:	Danger	
Hazard statements	:	H225	Highly flammable liquid and vapour.
Precautionary statements	:	Prevention: P210 P233 Response: P303 + P361 + P353 P370 + P378 Storage: P403 + P235 Disposal: P501	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. Store in a well-ventilated place. Keep cool. Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
ethanol	64-17-5 200-578-6	F; R11	Flam. Liq. 2; H225	>= 50 - <= 100

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.



Symphony C

Version 1.1

Revision Date 11-06-2012

Print Date 11-09-2012

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Move to fresh air.
If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

- Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : High volume water jet



Symphony C

Version 1 . 1

Revision Date 11-06-2012

Print Date 11-09-2012

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self contained breathing apparatus for fire fighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Refer to protective measures listed in sections 7 and 8.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

Treat recovered material as described in the section "Disposal considerations".

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling



Symphony C

Version 1 . 1

Revision Date 11-06-2012

Print Date 11-09-2012

- Advice on safe handling : Avoid formation of aerosol.
 For personal protection see section 8.
 Smoking, eating and drinking should be prohibited in the application area.
 Take precautionary measures against static discharges.
 Provide sufficient air exchange and/or exhaust in work rooms.
 Open drum carefully as content may be under pressure.
 Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.
 Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).
 Use only explosion-proof equipment.
 Keep away from open flames, hot surfaces and sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : No smoking.
 Keep container tightly closed in a dry and well-ventilated place.
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.
 Observe label precautions.
 Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage conditions : See label, package insert or internal guidelines
- Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

- Specific use(s) : Laboratory chemicals

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Source
ethanol	64-17-5	TWA	1,000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	1,000 ppm	USA. NIOSH



Symphony C

Version 1 . 1

Revision Date 11-06-2012

Print Date 11-09-2012

			1,900 mg/m3	Recommended Exposure Limits
		TWA	1,000 ppm 1,900 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	1,000 ppm 1,900 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

Personal protective equipment

Eye protection : Eye wash bottle with pure water
 Tightly fitting safety goggles

Hand protection : Protective gloves

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves.



Symphony C

Version 1.1

Revision Date 11-06-2012

Print Date 11-09-2012

Skin and body protection : impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : light red

Odour : alcohol-like

pH : acidic

Melting point/range : no data available

Boiling point/boiling range : no data available

Flash point : 12 °C

Lower explosion limit : no data available

Upper explosion limit : no data available

Vapour pressure : no data available

Water solubility : completely miscible

Partition coefficient: n-octanol/water : no data available

Ignition temperature : no data available

Thermal decomposition : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

Viscosity, dynamic : no data available

9.2 Other information

Conductivity : no data available

Oxidising potential : no data available

Surface tension : no data available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.



Symphony C

Version 1 . 1

Revision Date 11-06-2012

Print Date 11-09-2012

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Further information: No decomposition if stored and applied as directed.

: Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product

Acute oral toxicity : no data available

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Acute toxicity (other routes of administration) : no data available

Skin corrosion/irritation : This information is not available.

Serious eye damage/eye irritation : This information is not available.

Aspiration toxicity : no data available

Further information : Solvents may degrease the skin.

Components:

ethanol:

Acute oral toxicity : LD50: 7,000 mg/kg, rat



Symphony C

Version 1.1

Revision Date 11-06-2012

Print Date 11-09-2012

	: LD50: 3,450 mg/kg, mouse
Acute inhalation toxicity	: LC50: 20000 ppm, 10 h, rat, : LC50: 39 g/m ³ , 4 h, mouse,
Acute dermal toxicity	: no data available
Acute toxicity (other routes of administration)	: no data available
Skin corrosion/irritation	: This information is not available.
Serious eye damage/eye irritation	: This information is not available.
Respiratory or skin sensitization	: Result: no data available
STOT - single exposure	: Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.
Aspiration toxicity	: no data available
Further information	: no data available

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Product:

Toxicity to fish : no data available
Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

Toxicity to bacteria : no data available

Ecotoxicology Assessment

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : no data available

Components:

ethanol:



Symphony C

Version 1 . 1

Revision Date 11-06-2012

Print Date 11-09-2012

- Toxicity to fish : LC50: 8,000 mg/l, 48 h, Leuciscus idus (Golden orfe)
: LC50: 7,100 mg/l, Oncorhynchus mykiss (rainbow trout),
OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50: 5,400 mg/l, 48 h, Daphnia magna (Water flea)
- Toxicity to algae : EC0: 5,000 mg/l, 7 d, Scenedesmus quadricauda (Green algae)
- Toxicity to bacteria : EC0: 6,500 mg/l, 16 h, Pseudomonas putida

Ecotoxicology Assessment

- Toxicity Data on Soil : Not expected to adsorb on soil.
- Other organisms relevant to the environment : no data available

12.2 Persistence and degradability

Product:

- Biodegradability : no data available

Components:

ethanol:

- Biodegradability : no data available

12.3 Bioaccumulative potential

Product:

- Bioaccumulation : no data available

Components:

ethanol:

- Bioaccumulation : no data available

12.4 Mobility in soil

Product:

- Mobility : no data available
- Distribution among environmental compartments : no data available
- Environmental fate and pathways : no data available
- Physico-chemical removability : no data available



Symphony C

Version 1.1

Revision Date 11-06-2012

Print Date 11-09-2012

Components:

ethanol:

Mobility : no data available

Distribution among environmental compartments : no data available

Environmental fate and pathways : no data available

Physico-chemical removability : no data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Components:

ethanol:

Assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects

Product:

Biochemical Oxygen Demand (BOD) : no data available

Dissolved organic carbon (DOC) : no data available

Chemical Oxygen Demand (COD) : no data available

Adsorbed organic bound halogens (AOX) : no data available

Additional ecological information : no data available

Components:



Symphony C

Version 1.1

Revision Date 11-06-2012

Print Date 11-09-2012

ethanol:

Biochemical Oxygen Demand (BOD) : no data available

Dissolved organic carbon (DOC) : no data available

Chemical Oxygen Demand (COD) : no data available

Adsorbed organic bound halogens (AOX) : no data available

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product : Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
Can be disposed as waste water, when in compliance with local regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 1170
Description of the goods : Ethanol
Class : 3
Packing group : II
Labels : 3
Emergency Response : 127
Guidebook Number :
Environmentally hazardous : no

IATA

UN number : 1170
Description of the goods : Ethanol
Class : 3
Packing group : II



Symphony C

Version 1.1

Revision Date 11-06-2012

Print Date 11-09-2012

Labels : 3
Packing instruction (cargo aircraft) : 364
Packing instruction (passenger aircraft) : 353
Packing instruction (LQ) : Y341
Environmentally hazardous : no

IMDG

UN number : 1170
Description of the goods : Ethanol
Class : 3
Packing group : II
Labels : 3
EmS Number 1 : F-E
EmS Number 2 : S-D

Marine Pollutant : no
Environmentally hazardous : no

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Flammable liquid
Carcinogen

WHMIS Classification : B2 Flammable liquid
Flammable liquid

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity

Components : acetic acid 5000 lbs

SARA 302 Reportable Quantity

Product : This material does not contain any components with a SARA 302 RQ.

SARA 311/312 Hazards : Fire Hazard
Chronic Health Hazard

EPCRA - Emergency Planning and Community Right-to-Know Act



Symphony C

Version 1.1

Revision Date 11-06-2012

Print Date 11-09-2012

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 : This material does not contain any components with a section 304 EHS RQ.

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMII Intermediate or Final VOC's (40 CFR 60.489):

ethanol 90 %

acetic acid 0.9999 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

acetic acid

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

acetic acid

US State Regulations

Massachusetts Right To Know

Components : ethanol 90 - 100 %

Pennsylvania Right To Know

Components : ethanol 90 - 100 %
water 5 - 10 %
acetic acid 0.1 - 1 %

New Jersey Right To Know

Components : ethanol 90 - 100 %
water 5 - 10 %



Symphony C

Version 1.1

Revision Date 11-06-2012

Print Date 11-09-2012

California Prop 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R11 Highly flammable.

Full text of H-Statements referred to under sections 2 and 3.

H225 Highly flammable liquid and vapour.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



Symphony C

Version 1.1

Revision Date 11-06-2012

Print Date 11-09-2012