

## Symphony Clear

Version 1.1

Revision Date 11-18-2013

Print Date 03-11-2014

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Symphony Clear

Mat.-No./ Genisys-No. : 05279518001

#### Manufacturer or supplier's details

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

Telephone : +44 1444 256000

Telefax : +44 1444 256239

Emergency telephone number : +49(0)621-759-2012 oder +49(0)621-759-4848 oder  
+49(0)8856-60-2629

Emergency telephone number:

In case of emergencies: : Health, Safety & +44 1444 256500 or +44 7802  
(Roche Diagnostics Ltd.) Environment 260498

- +44 1444 256561 or +44 7710

Product Safety / Vigilance 391653

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Toxicology 24Hr help-line: : NPIS: +44 844 892 0111

Health Advice 24Hr help-line: NHS Direct: +44 845 4647

NHS 24: +44 8454 242424

#### Recommended use of the chemical and restrictions on use

Restrictions on use : For professional users only.

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

|                |          |
|----------------|----------|
| Physical state | liquid   |
| Colour         | yellow   |
| Odour          | pleasant |

#### GHS Classification

Flammable liquids : Category 3

Skin irritation : Category 2

Skin sensitisation : Category 1

Aspiration hazard : Category 1

#### GHS Label element

Hazard pictograms :



## Symphony Clear

Version 1.1

Revision Date 11-18-2013

Print Date 03-11-2014

|                          |   |
|--------------------------|---|
| Signal word              | : Danger  |
| Hazard statements        | : H226 Flammable liquid and vapour.<br>H304 May be fatal if swallowed and enters airways.<br>H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.  |
| Precautionary statements | : <b>Prevention:</b><br>P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.<br>P233 Keep container tightly closed.<br>P240 Ground/bond container and receiving equipment.<br>P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.<br>P242 Use only non-sparking tools.<br>P243 Take precautionary measures against static discharge.<br>P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.<br>P264 Wash skin thoroughly after handling.<br>P272 Contaminated work clothing should not be allowed out of the workplace.<br>P280 Wear protective gloves/ eye protection/ face protection.<br><b>Response:</b><br>P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.<br>P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.<br>P331 Do NOT induce vomiting.<br>P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.<br>P362 Take off contaminated clothing and wash before reuse.<br>P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.<br><b>Storage:</b><br>P403 + P235 Store in a well-ventilated place. Keep cool.<br>P405 Store locked up.<br><b>Disposal:</b><br>P501 Dispose of contents/ container to an approved waste disposal plant. |

### Potential Health Effects

#### Carcinogenicity:

|              |   |
|--------------|---|
| <b>IARC</b>  | No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| <b>ACGIH</b> | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.            |
| <b>OSHA</b>  | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.             |
| <b>NTP</b>   | No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.                 |

**Symphony Clear**

Version 1.1

Revision Date 11-18-2013

Print Date 03-11-2014

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Preparation

**Hazardous components**

| Chemical Name       | CAS-No.   | Concentration [%] |
|---------------------|-----------|-------------------|
| Orange, sweet, ext. | 8028-48-6 | >= 90 - <= 100    |

**SECTION 4. FIRST AID MEASURES**

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
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 skin irritation persists, call a physician.  
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 induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.
- Notes to physician : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

**Symphony Clear**

Version 1.1

Revision Date 11-18-2013

Print Date 03-11-2014

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

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
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.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and 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).

**SECTION 7. HANDLING AND STORAGE**

- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
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.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Conditions for safe storage : No smoking.  
Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and

## Symphony Clear

Version 1.1

Revision Date 11-18-2013

Print Date 03-11-2014

kept upright to prevent leakage.  
 Observe label precautions.  
 Electrical installations / working materials must comply with  
 the technological safety standards.

Materials to avoid :

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

| Components          | CAS-No.   | Value type<br>(Form of<br>exposure) | Control<br>parameters /<br>Permissible<br>concentration | Basis |
|---------------------|-----------|-------------------------------------|---|-------|
| Orange, sweet, ext. | 8028-48-6 | TWA                                 | 20 ppm  | ACGIH |

#### Personal protective equipment

Hand protection

Material : Protective gloves

Remarks

: 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.

Eye protection

: Eye wash bottle with pure water  
Tightly fitting safety goggles

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

: When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid  
 Colour : yellow  
 Odour : pleasant  
 pH : neutral  
 Melting point/range : no data available

**Symphony Clear**

Version 1.1

Revision Date 11-18-2013

Print Date 03-11-2014

|                             |  |
|-----------------------------|--|
| Boiling point/boiling range | : ca. 171 - 189 °C   |
| Flash point                 | : ca. 44 °C  |
| Upper explosion limit       | : no data available  |
| Lower explosion limit       | : no data available  |
| Density                     | : 0.84 g/cm <sup>3</sup> (25 °C)                                 |
| Solubility(ies)             |  |
| Water solubility            | : partly miscible  |
| Auto-ignition temperature   | : no data available  |
| Thermal decomposition       | : Hazardous decomposition products formed under fire conditions. |
| Oxidizing properties        | : The substance or mixture is not classified as oxidizing.       |

**SECTION 10. STABILITY AND REACTIVITY**

|                                    |   |
|------------------------------------|---|
| Reactivity                         | : No dangerous reaction known under conditions of normal use.   |
| Chemical stability                 | : Stable under normal conditions.   |
| Possibility of hazardous reactions | : Reacts with the following substances:<br>Oxidizing agents<br>Bases<br><br>No decomposition if stored and applied as directed.<br><br>Vapours may form explosive mixture with air. |
| Conditions to avoid                | : Heat, flames and sparks.  |
| Incompatible materials             | : no data available   |
| Hazardous decomposition products   | : Hazardous decomposition products formed under fire conditions.  |

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

no data available

**Skin corrosion/irritation****Product:**

Remarks: May cause skin irritation and/or dermatitis.

**Components:**

## Symphony Clear

Version 1.1

Revision Date 11-18-2013

Print Date 03-11-2014

**Orange, sweet, ext.:**

Result: Skin irritation

Remarks: May cause skin irritation and/or dermatitis.

### Serious eye damage/eye irritation

**Product:**

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

**Components:**

**Orange, sweet, ext.:**

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

### Respiratory or skin sensitisation

**Product:**

Remarks: Causes sensitisation.

**Components:**

**Orange, sweet, ext.:**

Classification: May cause sensitisation by skin contact.

Remarks: Causes sensitisation.

### Germ cell mutagenicity

no data available

### Carcinogenicity

no data available

### Reproductive toxicity

no data available

### STOT - single exposure

**Components:**

**Orange, sweet, ext.:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT - repeated exposure

no data available

### Aspiration toxicity

**Components:**

**Orange, sweet, ext.:**

May be fatal if swallowed and enters airways.

### Further information

**Product:**

## Symphony Clear

Version 1.1

Revision Date 11-18-2013

Print Date 03-11-2014

Remarks: Solvents may degrease the skin.

**Components:**

**Orange, sweet, ext.:**

Remarks: Solvents may degrease the skin.

### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

**Product:**

Ecotoxicology Assessment

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

Other organisms relevant to the environment : no data available

**Components:**

**Orange, sweet, ext. :**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0.7 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.42 mg/l  
Exposure time: 48 h

Ecotoxicology Assessment

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

Other organisms relevant to the environment : no data available

#### Persistence and degradability

**Components:**

**Orange, sweet, ext. :**

Biodegradability : Biodegradation: 41 - 98 %  
Exposure time: 14 d

#### Bioaccumulative potential

**Components:**

**Orange, sweet, ext. :**

Partition coefficient: n-octanol/water : log Pow: 4.23

#### Mobility in soil

no data available

#### Other adverse effects

no data available

**Product:**

Regulation

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks

This product neither contains, nor was manufactured with a



## Symphony Clear

Version 1.1

Revision Date 11-18-2013

Print Date 03-11-2014

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).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life with long lasting effects.

### Components:

#### **Orange, sweet, ext. :**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life with long lasting effects.

## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14. TRANSPORT INFORMATION

### **International regulation**

#### **IATA-DGR**

UN/ID No. : 2319  
Proper shipping name :  
Class : 3  
Packing group : III  
Labels : 3  
Packing instruction (cargo aircraft) : 366  
Packing instruction (passenger aircraft) : 355

#### **IMDG-Code**

UN number : 2319  
Proper shipping name :  
( )  
Class : 3  
Packing group : III  
Labels : 3

**Symphony Clear**

Version 1.1

Revision Date 11-18-2013

Print Date 03-11-2014

Marine pollutant : no

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

Not applicable for product as supplied.

**National Regulations****49 CFR**

UN/ID/NA number : 2319  
Proper shipping name : Terpene hydrocarbons, n.o.s.  
Class : 3  
Packing group : III  
Labels : 3  
ERG Code : 128  
Marine pollutant : no

**Special precautions for user**

Remarks : no data available

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**SECTION 15. REGULATORY INFORMATION****OSHA Hazards** : Combustible Liquid, Skin sensitiser, Moderate skin irritant**WHMIS Classification** : B3: Combustible Liquid  
Toxic Material Causing Other Toxic Effects**EPCRA - Emergency Planning and Community Right-to-Know Act****SARA 302** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.**SARA 313** : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

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).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

**Symphony Clear**

Version 1.1

Revision Date 11-18-2013

Print Date 03-11-2014

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**US State Regulations**

**Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know**

Orange, sweet, ext. 8028-48-6 90 - 100 %

**New Jersey Right To Know**

Orange, sweet, ext. 8028-48-6 90 - 100 %

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

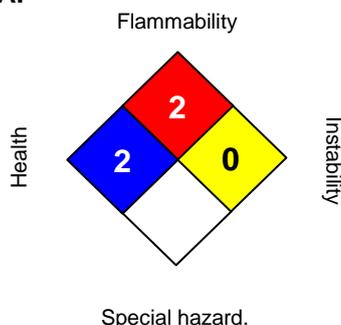
**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**SECTION 16. OTHER INFORMATION**

**Further information**

**NFPA:**



**HMIS III:**

|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>2</b> |
| <b>FLAMMABILITY</b>    | <b>2</b> |
| <b>PHYSICAL HAZARD</b> | <b>0</b> |

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

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.