

SAFETY DATA SHEET

Infant 3
DNA Diagnostic A/S

Revised: 29.06.2018
Replaces: 17.02.2014

1. Product Identification

Product names:

Infant 3

Catalog no's.:

IN3, IN3E, IN3L, IN3EL

Chemical names, common names:

Not applicable

Product use:

The kit is for detection of *Cronobacter spp.*, *Salmonella spp.* and *Enterobacteriaceae* in infant formula powder and ingredients for infant formula.

Synonyms:

Not applicable

Manufacturer's name:

DNA Diagnostic A/S

Address:

Voldbjergvej 14
DK-8240 Risskov
Denmark

Emergency phone: +45 8732 3050

Business phone: +45 8732 3050

Web: www.dna-diagnostic.com

2. Hazards identification

Classification of the substance or mixture according to 1272/2008 CLP

Not classified.

Label Elements 1272/2008 CLP

Not classified.

Other Hazards

The product does not meet the criteria for PBT or vPvB.

3. Composition / Information of Ingredients

This safety sheet describes the Infant 3 kits

The Infant 3 kits consists of the following solutions:

Cat no IN3:

Infant 3 qPCR mix: 12 x 8-wells, 15 µl/well

Cat no IN3E:

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Wash buffer: 110 mL
Lysis Buffer 1: 12mL
Mix additive for Lysis buffer 1: 1334 µL
Infant 3 qPCR mix: 12 x 8-wells, 15 µl/well
Optical lids: 96 wells

Cat no IN3L:

Live only mix 12x8 wells, 80 µl/well
Infant 3 qPCR mix; 12 x 8-wells, 15 µl/well

Cat no IN3EL:

Wash buffer: 110 mL
Lysis Buffer 1: 12mL
Mix additive for Lysis buffer 1: 1334 µL
Live only mix: 12x8 wells, 80 µl/well
Infant 3 qPCR mix: 12 x 8-wells, 15 µl/well

These four product components contain no notifiable substances, but the following product have biological constituents, occupational limits or H-phrases.

qPCR mix:

CAS/EC-no.	REACH No	Name	Content%	Classification CLP
9012-90-2/-	-	Taq DNA Polymerase enzyme	-	Biological Constituent SDS data N/A according to generic limits in EU directive 1272/2008 CLP
56-81-5/200-289-5	-	Glycerol	<10%	-

4. First aid measures

Emergency overview:

Water is the main component of all solutions.

Occupational exposure presents little or no health hazard. There are exposure limits for glycerol.

Eye:

Flush with water in eyewash for at least 15 minutes, holding eyelids open. Remove contact lenses, clean before re-use. Obtain medical attention if symptoms develop (redness, itching, etc.)

Skin:

Wash with plenty of soap and water for at least 15 minutes. Remove contaminated clothing, which may be washed for re-use. Obtain medical attention if symptoms develop (redness, itching, etc.).

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Inhalation:

Remove person to fresh air. Obtain medical attention unless effects are mild and temporary.

Ingestion:

Give plenty of water, if conscious. If vomiting occurs naturally, wash out mouth. Be prepared to induce vomiting upon a physician's advice. Obtain medical attention if symptoms develop.

Note to Physician:

Treat symptomatically. No specific antidote.

Special note regarding Biological Constituents

The Biological Constituents of this product are known to be non-infectious and non-hazardous. When this product is used in conjunction with bodily fluids UNIVERSAL PRECAUTIONS SHOULD BE IMPLEMENTED.

Exposure limits:

No compounds in this product have defined exposure limits.

4. First Aid Measures

Basic hygiene should prevent any problems. If contact with this product leads to reddening, inflammation, or other skin or eye irritation, flush the exposures area with running water.

Remove any contaminated clothing, taking care not to contaminate eyes. If chemical is in eyes, open victim's eyes while under gentle running water. Use sufficient force to open eye lids. Have the victim "roll" eyes. As per standard industrial practice, the recommended minimum flushing time is 15 minutes.

The victim should seek immediate medical attention if an adverse reaction has occurred. A copy of label and SDS should be given to the physician or health professional. If chemical is swallowed, and the victim is having a reaction to the product, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow.

Eye:

Flush with water in an eyewash for at least 15 minutes, holding eyelids open. Remove contact lenses, clean before re-use. Obtain medical attention if symptoms develop (redness, itching, etc).

Skin:

Wash with plenty of soap and water for at least 15 minutes. Remove contaminated clothing, which may be washed for re-use. Obtain medical attention if symptoms develop (redness, itching, etc.).

Inhalation:

Remove person to fresh air. Obtain medical attention unless effects are mild and temporary.

Ingestion:

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Note to Physician:

Treat symptomatically. No specific antidote.

5. Fire Fighting Measures

Fire extinguishing media

This Product is not combustible. If this product is in the proximity of a fire, use fire extinguishing materials which are appropriate the materials which are involved in the fire, eg. powder, foam, CO₂ or water fog.

Unsuitable extinguishing media

None known.

Hazardous Combustion products

Includes carbon dioxide, carbon monoxide, and dense smoke.

Advice for firefighters

Standard turnout gear ("bunker gear"). Positive pressure self-contained breathing apparatus. Prevent firefighting water from entering the environment.

6. Accidental release measures

Personal Protective Equipment

Area ventilation is generally adequate. Chemical-resistant gloves should be worn. Wear standard safety goggles or glasses. All watertight materials and rubber materials offer adequate protection. Avoid contact with eyes and skin.

Spill cleanup

Absorb spill. Common absorbent materials should be effective. Deposit in appropriate containers for removal and disposal. Wash area with plenty of water.

Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. Accidental releases may be subject to special reporting requirements and other regulatory mandates.

See also sections 8 and 13

7. Handling and storage

Storage temperature

Frozen, at minus 20 degrees Celsius.

Storage pressure

Ambient.

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Handling procedures

Keep closed or covered when not in use.

Storage Procedures

Suitable for most general chemical storage areas. Protect from direct sunlight.

Specific end uses

This product should only be used for applications described in section 1.

8. Exposure controls, personal protection

Control parameters

Occupational exposure limits EH40 (Great Britain)

Contained in product components cDNA mix and qPCR mix

CAS-no:	Name	Limits	Comments
56-81-5	Glycerol, mist	10 mg/m ³ /8 hour TWA	-

DNEL/PNEC: -

Exposure controls

Appropriate technical measures:

Well- functioning area ventilation is generally adequate. No respiratory protection will be needed under normal operating conditions.

General information/hygiene measures:

Smoking, consumption of food or liquid, and storage of tobacco, food or liquid, are not allowed in the workroom. Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Always wash hands, forearms and face. Make sure that eyewash and emergency showers are clearly marked. Avoid contact with eyes and skin.

Personal Protective Equipments

Only CE marked personal protection equipment should be used. Chemical-resistant gloves should be worn (EN 374).

Wear standard safety goggles or glasses (EN 166). No respiratory protection is needed.

Wear appropriate protective clothing.

9. Physical and chemical properties

For all components of the kit

Odor

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None

Boiling point

100 degrees Celsius

Melting point or range

0 degrees Celsius

pH

Neutral

Vapor Density

Not established but similar to water

Specific gravity

1.0

Solubility in water

Yes

Vapor pressure, mm Hg at 20 degrees Celsius

Similar to water

Volatiles

Not established

Evaporation rate (water=1)

Not established but similar to water

Viscosity

Not established but similar to water

Appearance and color

Colorless liquid, like water

How to detect this substance

There are no unusual properties. The product's characteristics are very similar to those for water.

10. Stability and Reactivity

Reactivity

Stable under normal and recommended conditions.

Chemical Stability

Stable under recommended conditions for use and storage

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Conditions to avoid

Any set of conditions, which should be avoided for water. Direct sunlight. Strong oxidizers and reducers. Strong acids and bases. Alkalimetals.

Materials with which substance is incompatible

This product is not compatible with substances which are incompatible with water. Otherwise not established.

Hazardous Decomposition Products

None known

Hazardous reactions

Not expected to occur

11. Toxicological information

Potential Health Effect

No long-term health effect from exposure to this product is presently known.

Specific target organ toxicity – single exposure

Not classified

Acute toxicity

Not classified

Serious eye damage/irritation

Not classified

Dermal/skin corrosion/irritation

Not classified

Inhalation/respiratory

Not classified

Oral/ingestion

Not classified

Aspiration hazard

Not classified

Specific target organ toxicity – single exposure

Not classified

Specific target organ toxicity – repeated exposure

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Not classified

Carcinogenicity

Not classified

Reproductive toxicity

Not classified

Additional information

May cause mild temporary irritation in eyes

12. Ecological Information

Toxicity

Not classified but avoid leakage to sewage system or surface water. Contained in products qPCR mix:
Glycerol: Daphnia – EC50 – 24h: >500 mg/l

Environmental Fate (Degradation, Transformation, and Persistence)

Bio-concentration is not expected to occur

Bioaccumulative potential

Glycerol: log Pow: -1,76

Mobility in soil

No data

Result of PBT and vPvB assessment

The product does not meet the criteria for PBT or vPvB

Other adverse effects

None known

13. Disposal Considerations

Waste treatment methods

Avoid discharge to drain and surface water Collect spills and waste in closed leak-proof containers for disposal at the local hazardous waste site.

EWC-code

15 02 02 absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances.

Contaminated packing

Packaging which contains leftovers from the product must be disposed of in the same way as the product.

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14. Transport information

This product is not subject to transport regulations

UN Proper shipping name

Not determined

UN number

Not determined

Transport Hazard class

Not determined

Environmental hazards - MP

Not determined

ID number

Not determined

Special precautions for the user: Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and IBC code: Not applicable

15. Regulatory information

European Union.

Pressure Equipment (Amendment) Regulations 2011. Chemicals (Hazard Information and Packaging for Supply) Regulations 2009. Control of Substances Hazardous to Health Regulations 2002 (as amended). Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997. Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995 (as amended). Personal Protective Equipment Regulations 2002. Personal Protective Equipment at Work Regulations 1992. Hazardous Waste (England and Wales) Regulations 2005(as amended). EC regulation 19s07/2006 (REACH) Directive 2000/532/EC. Seveso directive: 96/82/EC. EU 453/2010.

United States.

TSCA: This product is solely for research and development purposes only. It may only be handled by technically qualified individuals.

Canada.

DSL/NDSL: Not determined.

16: Other information

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