Section 1 - Product and Company Identification

1.1 Product identifiers
Product name: 3p-hpRNA
Catalog code: tlr1-hprna
CAS number: Not available

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified use: Laboratory chemicals
Disclaimer: All InvivoGen products are supplied for research and laboratory use only. Not for drug, household or other uses.

1.3 Details of the supplier of the safety data sheet
InvivoGen USA, 3950 Sorrento Valley Blvd, Suite 100 San Diego, California 92121, USA
(+1) 888 457 5873
InvivoGen Europe, 5 rue Jean Rodier 31400 Toulouse, France
(+33) 5 62 71 69 39
InvivoGen Hong Kong, Unit 709A, Bio-Informatics Center 2 Science Park West Avenue, Hong Kong Science Park Shatin, Hong Kong
+852 3622 3480

1.4 Emergency telephone number:
ORFILA (INRS): +33 (0)1 45 42 59 59

Section 2 – Hazards Identification

2.1 Classification of substance according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] and GHS
Not a hazardous substance or mixture.

2.2 Label elements according to Regulation (EC) No 1272/2008 [CLP] and GHS
Not a hazardous substance or mixture.

2.3 Other hazards - none

Section 3 – Composition/Information on Ingredient

3.1 Substances
Synonyms: 5' triphosphate hairpin RNA
Formula: Not available
Molecular weight: 28995 g/mol
CAS number: Not available
Section 4 – First Aid Measures

4.1 Description of first aid measures
General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled: If breathed in, remove to fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact: Wash skin with soap and plenty of water. Consult a physician.
In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

Section 5 – Fire Fighting Measures

5.1 Extinguishing media
Suitable extinguishing media: Use water spray, carbon dioxide, dry chemical powder or appropriate foam.

5.2 Specific hazards arising from the chemical
No data available

5.3 Special Firefighting Procedures
Wear self-contained breathing apparatus for fire fighting if necessary.

Section 6 – Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

Section 7 – Handling and Storage

7.1 Precautions for safe handling
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Recommended storage temperature: -20 °C or -80 °C
7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8 – Exposure Controls/PPE

8.1 Control parameters
Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls
Appropriate engineering controls
General industrial hygiene practice.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Body Protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Do not let product enter drains.

Section 9 – Physical/Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance
Physical state: Solid
Color: White

Safety Data
Odor: No data available
Odor threshold: No data available
pH: No data available
Melting point/freezing point: No data available
Initial boiling point and boiling range: No data available
Flash point: No data available
Evaporation rate: No data available
Flammability: No data available
Upper/lower flammability or explosive limits: No data available
Vapor pressure: No data available
Relative density: No data available
Solubility in water: 1 mg/ml
Partition coefficient: n-octanol/water: No data available
Autoignition temperature: No data available
Decomposition temperature: No data available  
Viscosity: No data available  

9.2 Other safety information  
no data available  

Section 10 – Stability and Reactivity  

10.1 Reactivity: No data available  
10.2 Chemical stability: Stable under recommended storage conditions.  
10.3 Possibility of hazardous reactions: No data available  
10.4 Conditions to avoid: No data available  
10.5 Incompatible materials: No data available  
10.6 Hazardous decomposition products: No data available  

Section 11 – Toxicological Information  

11.1 Information on toxicological effects  
Acute toxicity:  
Oral LD50: No data available  
Inhalation LC50: No data available  
Dermal LD50: No data available  
Other information on acute toxicity: No data available  
Skin corrosion/irritation: No data available  
Serious eye damage/irritation: No data available  
Respiratory or skin sensitization: No data available  
Germ cell mutagenicity: No data available  
Carcinogenicity: No data available  
Reproductive toxicity: No data available  
Additional information: No data available  

Section 12 – Ecological Information  

12.1 Toxicity: No data available  
12.2 Persistence and degradability: No data available  
12.3 Bioaccumulative potential: No data available  
12.4 Mobility in soil: No data available  
12.5 Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required or not conducted.  
12.6 Other adverse effects: No data available  

Section 13 – Disposal Considerations  

13.1 Waste treatment methods  
Product: Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Must not be disposed of together with household garbage.  
Contaminated Packaging: Dispose of as unused product.  

Section 14 – Transport Information  

14.1 UN number  
ADR/RID: -  
DOT (US): -  
IMDG: -  
IATA: -  

14.2 UN proper shipping name  
not dangerous goods
### 14.3 Transport hazard class(es)

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<th>IATA:</th>
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### 14.4 Packaging group

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### 14.5 Environmental hazards

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### 14.6 Special precautions for user

no data available

### 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

no data available

### 15.2 Chemical Safety Assessment

no data available

## Section 16 – Other Information

The information contained in this SDS relates only to the material(s) designated and does not relate to use(s) in combination with any other material, process(es) and/or chemical reaction(s). InvivoGen provides this information in good faith and is based on our present knowledge. This SDS is provided without warranty of any kind. The recipient is responsible for ensuring that, where applicable, existing laws and guidelines are observed.