



SAFETY DATA SHEET

Forprime

SDS according to Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II-EU

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

Date issued 15.05.2015

1.1. Product identifier

Product name Forprime
 REACH Reg. No., Comments The product is a mixture.

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

Use of the substance/preparation Booster
 The chemical can be used by the general public No

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name OY FORCIT AB
 Postal address P.O.Box 19
 Postcode 10901
 City Hanko
 Country Finland
 Tel +358 (0)207 440 400
 E-mail forcit@forcit.fi

1.4. Emergency telephone number

Emergency telephone National poison information center / National helpdesk:countrywise telephone number

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to 67/548/EEC or 1999/45/EC E; R2
 T; R25,R39/25
 Xn; R48/22
 Classification according to Regulation (EC) No 1272/2008 [CLP/GHS] Expl. 1.1;H201;
 Acute tox. 3;H301;
 STOT SE1;H370;
 STOT RE2;H373;

2.2. Label elements

Hazard Pictograms (CLP)



Signal word Danger
 Hazard statements H201 Explosive; mass explosion hazard.
 H301 Toxic if swallowed.

Precautionary statements	H370 Causes damage to organs (central nervous system by oral exposure). H373 May cause damage to organs (central nervous system) through prolonged or repeated exposure (oral). P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P250 Do not subject to grinding/shock/friction. P370 + P380 In case of fire: Evacuate area. P372 Explosion risk in case of fire. P373 DO NOT fight fire when fire reaches explosives. P281 Use personal protective equipment as required.
Other Label Information (CLP)	Explosives are labeled and packaged in accordance with the requirements for explosives only.

2.3. Other hazards

Other hazards	No data recorded.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
RDX	CAS no.: 121-82-4 EC no.: 204-500-1 Registration number: 01-2119990795-17-0002	Xn; R48/22 T; R39/25 T; R25 E; R2 Expl. 1.1;H201; Acute tox. 3;H301; STOT SE1;H370; STOT RE2;H373;	65 - 85 %
Distillates (petroleum), hydrotreated heavy naphthenic	CAS no.: 64742-52-5 EC no.: 265-155-0 Registration number: 01-2119467170-45-0002	Classification notes:Not classified as carcinogenic, contains DSMO-extract < 3% (IP 346). DSD/DPD Classification, Comments:Not classified.	9 - 20 %

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties oxygen may be necessary. Perform artificial respiration if breathing has stopped. IF exposed or concerned: Get medical advice/attention.
Skin contact	Remove contaminated clothes and rinse skin thoroughly with water and soap. If skin irritation occurs: Get medical advice/attention.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Contact physician if discomfort continues.
Ingestion	Rinse mouth thoroughly. Drink a few glasses of water or milk. Get immediate medical advice/attention.

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

Information for health personnel	Symptoms do not necessarily appear immediately. Patients should therefore be kept under medical observation for at least 48 hours.
General symptoms and effects	Not determined.
Acute symptoms and effects	Ingestion of RDX can cause convulsions similar to epileptic seizures, and should be treated as such.

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

Medical treatment Not determined.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media DO NOT fight fire when fire reaches explosives. Explosion risk in case of fire.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards When heated and in case of fire, toxic vapours/gases may be formed. May explode when heated or when exposed to flames or sparks.

5.3. Advice for firefighters

Fire fighting procedures Fight adjacent fire with all available means to prevent fire from reaching the product.
DO NOT fight fire when fire reaches explosives. Leave danger zone immediately.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures Avoid contact with skin and eyes. For personal protection, see section 8.

6.2. Environmental precautions

Environmental precautionary measures Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Cleaning method Collect spilled explosive mass with suitable non-sparking tools (made of wood or aluminum). Place into marked, sealable containers and dispose of as required by the authorities.

6.4. Reference to other sections

Other instructions Firefighting, see Section 5.
Personal protective equipment, see Section 8.2.
Disposal of waste containing product residues, see Section 13.1.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling Risk of explosion by shock, friction or other sources of ignition. Use non sparking handtools and explosion-proof electric equipment. Do not smoke or use open fire, or other sources of ignition. Provide good ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Storage Store locked up. Store in a dry place. Keep cool. Protect from sunlight. The recommended storage temperature: <25 °C. National regulations must be followed with handling and storage.

7.3. Specific end use(s)

Specific use(s) See Section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Safety signs



Respiratory protection

Respiratory protection	Respiratory protection not required.
Hand protection	
Hand protection	Use suitable protective gloves if risk of skin contact.
Suitable materials	No recommendation given.
Eye / face protection	
Eye protection	Goggles/face shield are recommended.
Skin protection	
Skin protection (except hands)	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene / Environmental	
Specific hygiene measures	Wash hands always after work, before eating, drinking, smoking or going to the bathroom.
Appropriate environmental exposure control	
Environmental exposure controls	Avoid the product from entering drains, sewers, waterways and soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Mass in plastic cartridge.
Colour	Orange.
Odour	Odourless.
Comments, Odour limit	Not relevant.
Comments, pH (as supplied)	Not relevant.
Melting point/melting range	Value: 190 °C
Comments, Melting point / melting range	(RDX)
Comments, Boiling point / boiling range	Not relevant.
Comments, Flash point	Not relevant.
Comments, Evaporation rate	Not determined.
Flammability (solid, gas)	Not determined.
Comments, Vapour pressure	Not relevant.
Comments, Vapour density	Not relevant.
Specific gravity	Value: 1,40-1,45 kg/dm ³
Solubility description	The mixture is almost insoluble.
Comments, Partition coefficient: n-octanol / water	RDX: Log Pow: 0,87
Comments, Spontaneous combustability	Not determined.
Decomposition temperature	Value: ≥ 190-200 °C
Comments, Viscosity	Not determined.
Explosive properties	Explosive
Oxidising properties	Not determined.

9.2. Other information

Other physical and chemical properties

Comments	Not determined.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No dangerous reactions known under conditions of normal use.
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10.2. Chemical stability

Stability	Stable under the prescribed storage conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None known under normal storage and handling conditions.

10.4. Conditions to avoid

Conditions to avoid Risk of explosion by shock, friction, fire or other sources of ignition.

10.5. Incompatible materials

Materials to avoid Avoid contact with oxidising agents. Risk of explosion.

10.6. Hazardous decomposition products

Hazardous decomposition products During fire, toxic gases (CO, CO₂, NO_x) are formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological data for substances

Substance	RDX
LD50 oral	Value: 71 mg/kg Animal test species: Rat
Substance	Distillates (petroleum), hydrotreated heavy naphthenic
LD50 oral	Value: > 5000 mg/kg Animal test species: Rat
LD50 dermal	Value: > 2000 mg/kg Animal test species: Rabbit
LC50 inhalation	Value: > 5,53 mg/l Animal test species: Rat Duration: 4 h

Other information regarding health hazards

General The toxicological information applies to the uncartridged product mass.

Potential acute effects

Irritation	Based on available data, the classification criteria are not met.
Corrosivity	Not known.

Delayed effects / repeated exposure

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

Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity	Based on available data, the classification criteria are not met.
Teratogenic properties	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Other adverse Toxicological effects	Not determined.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Not classified as dangerous to the environment. However, the product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

Toxicological data for substances

Substance	RDX
Acute aquatic, fish	Value: 11,1-15,0 mg/l Method of testing: LC50 Species: Pimephales promelas Duration: 96 h
Substance	Distillates (petroleum), hydrotreated heavy naphthenic
Acute aquatic, fish	Value: > 100 mg/l Method of testing: EC50 Duration: 96 h
Acute aquatic, algae	Value: > 100 mg/l

Method of testing: IC50

Duration: 48 h

12.2. Persistence and degradability

Persistence and degradability RDX: Decomposes by photolysis, half-life 3-13 hours.

12.3. Bioaccumulative potential

Bioaccumulative potential The product contains potentially bioaccumulating substances.

12.4. Mobility in soil

Mobility Not considered mobile.

12.5. Results of PBT and vPvB assessment

PBT assessment results Not determined.

vPvB evaluation results Not determined.

12.6. Other adverse effects

Other adverse effects / Remarks No data recorded.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Specify the appropriate methods of disposal Do not allow runoff to sewer, waterway or ground. Do not mix with normal waste.

Explosives waste and explosives-tainted containers must be collected immediately and disposed only under the supervision of experts and in accordance with given regulations. Uncleaned empty containers are to be handled in the same way as the ones containing products.

Product classified as hazardous waste Yes

SECTION 14: Transport information**14.1. UN number**

ADR 0042

RID 0042

IMDG 0042

ICAO/IATA 0042

14.2. UN proper shipping name

ADR BOOSTERS

RID BOOSTERS

IMDG BOOSTERS

ICAO/IATA BOOSTERS

14.3. Transport hazard class(es)

ADR 1.1D

RID 1.1D

IMDG 1.1D

ICAO/IATA 1.1D

Comments Prohibited from air transport.

14.4. Packing group

Comments Not determined.

14.5. Environmental hazards

Comments Not determined.

14.6. Special precautions for user

EmS F-B, S-X

Special safety precautions for user Not determined.

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

SECTION 15: Regulatory information

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

Comments For professional users only.

15.2. Chemical safety assessment

CSR required No

SECTION 16: Other information

Hazard symbol



R-phrases	R2 Risk of explosion by shock, friction, fire or other sources of ignition. R25 Toxic if swallowed. R39/25 Toxic: danger of very serious irreversible effects if swallowed. R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
S-phrases	S16 Keep away from sources of ignition - No smoking. S35 This material and its container must be disposed of in a safe way. S36/37 Wear suitable protective clothing and gloves. S41 In case of fire and/or explosion do not breathe fumes. S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Expl. 1.1; H201; Acute tox. 3; H301; STOT SE1; H370; STOT RE2; H373;
List of relevant R-phrases (under headings 2 and 3).	R2 Risk of explosion by shock, friction, fire or other sources of ignition. R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed. R39/25 Toxic: danger of very serious irreversible effects if swallowed. R25 Toxic if swallowed.
List of relevant H-phrases (Section 2 and 3).	H370 Causes damage to organs H373 May cause damage to organs through prolonged or repeated exposure H301 Toxic if swallowed. H201 Explosive; mass explosion hazard.
Important data sources used to construct the safety data sheet	REACH Directive (EC) 1907/2006 CLP Regulation (EC) 1272/2008 Material Safety Data Sheets on raw materials
Version	1
Responsible for safety data sheet	OY FORCIT AB
Comments	The information in this MSDS is based on the present state of our knowledge. It does not represent any guarantee with regard to product properties or their suitability for particular uses. Because the use of this information and instructions or the conditions of use of the product is not at our control, it is the user's duty to specify the circumstances for the safe use of the product.