

Detaprofi Blodex

Version number: GHS 1.0

Date of compilation: 2023-11-06

SECTION 1: Identification

1.1 Product identifier

Trade name **Detaprofi Blodex**

Other means of identification

Alternative number(s) 8421011

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

Relevant identified uses	cleaning agent industrial uses professional uses
Uses advised against	do not use for products which come into contact with foodstuffs do not use for private purposes (household)

1.3 Details of the supplier of the safety data sheet

BÜFA Cleaning GmbH & Co. KG
August-Hanken-Str. 30
26125 Oldenburg

Telephone: +49 441 9317 0
Website: www.buefa-cleaning.de

Competent person responsible for the safety data sheet	Regulatory Affairs
e-mail (competent person)	sds-cleaning@buefa.de

1.4 Emergency telephone number

Emergency information service This number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

Opening hours

Poison center					
Country	Name	Street	Postal code/city	Telephone	Telefax
Canada	Poison Centre Göttingen (Germany)			+49 551 19240	
China	化学事故应急咨询电话			0532-83889090	
Germany	Giftzentrale Göttingen			0551 19240	

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

This mixture does not meet the criteria for classification.

Hazards not otherwise classified

Health hazards not otherwise classified (HHNOS): not assigned
Physical hazards not otherwise classified (PHNOS): not assigned

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2.2 Label elements

Labeling (acc. to GHS)

not required

2.3 Other hazards

There is no additional information.

SECTION 3: Composition/information on ingredients





3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture

This product does not meet the criteria for classification in any hazard class according to GHS.

Name of substance	Identifier	Wt%	Hazard class and category		Hazard statement	Pictograms
Trisodium nitrilotriacetate	CAS No 5064-31-3 EC No 225-768-6	< 1	3.10 3.3 3.6	Acute Tox. 4 Eye Irrit. 2 Carc. 2	H302 H319 H351	
Potassium hydroxide	CAS No 1310-58-3 EC No 215-181-3	< 1	2.16 3.10 3.2 3.3	Met. Corr. 1 Acute Tox. 4 Skin Corr. 1A Eye Dam. 1	H290 H302 H314 H318	
2-aminoethanol	CAS No 141-43-5 EC No 205-483-3	< 1	2.6 3.10 3.1D 3.1I 3.2 3.3 3.8R	Flam. Liq. 4 Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Skin Corr. 1B Eye Dam. 1 STOT SE 3	H227 H302 H312 H332 H314 H318 H335	
Sodiumhydroxide	CAS No 1310-73-2 EC No 215-185-5	< 1	2.16 3.2 3.3	Met. Corr. 1 Skin Corr. 1B Eye Dam. 1	H290 H314 H318	

For full text of abbreviations: see SECTION 16.

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

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Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures**5.1 Extinguishing media****Suitable extinguishing media**

water spray, BC-powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture**Hazardous combustion products**

nitrogen oxides (NO_x)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up**Advice on how to contain a spill**

Covering of drains.

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Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Recommendations****Measures to prevent fire as well as aerosol and dust generation**

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities**Managing of associated risks****Incompatible substances or mixtures**

Observe compatible storage of chemicals.

Control of the effects**Protect against external exposure, such as**

frost

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****National limit values****Occupational exposure limit values (Workplace Exposure Limits)**

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Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
CA	potassium hydroxide	1310-58-3	OEL (AB)						2		OHS Code
CA	potassium hydroxide	1310-58-3	OEL (BC)						2		"BC Regulation"
CA	potassium hydroxide	1310-58-3	OEL (ON-MoL)						2		MoL
CA	potassium hydroxide	1310-58-3	PEV/VEA					2			Regulation OHS
CA	sodium hydroxide	1310-73-2	OEL (AB)						2		OHS Code
CA	sodium hydroxide	1310-73-2	OEL (BC)						2		"BC Regulation"
CA	sodium hydroxide	1310-73-2	OEL (ON-MoL)					2			MoL
CA	sodium hydroxide	1310-73-2	PEV/VEA						2		Regulation OHS
CA	2-aminoethanol	141-43-5	PEV/VEA	3	7.5	6	15				Regulation OHS
CA	2-aminoethanol (ethanolamine)	141-43-5	OEL (AB)	3	7.5	6	15				OHS Code
CA	ethanolamine	141-43-5	OEL (BC)	3		6					"BC Regulation"
CA	ethanolamine	141-43-5	OEL (ON-MoL)	3		6					MoL

notation

- Ceiling-C Ceiling value is a limit value above which exposure should not occur.
- STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified).
- TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified).

Relevant DNELs/DMELs/PNECs and other threshold levels

No data available.

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

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Skin protection

- **hand protection**

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- **other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Color	light yellow
Odor	characteristic

Other physical and chemical parameters

pH (value)	10.75
Melting point/freezing point	not determined
Initial boiling point and boiling range	100 °C
Flash point	not determined
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	not determined
Vapor pressure	2.339 kPa at 20 °C
Density	1 kg/l at 20 °C
Solubility(ies)	not determined
Partition coefficient	
n-octanol/water (log KOW)	This information is not available.
Auto-ignition temperature	not determined
Viscosity	not determined
Explosive properties	not explosive (GHS of the United Nations, annex 4)

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Oxidizing properties none

9.2 Other information

Solvent content 99.08 %
 Solid content 0.9155 %

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

Physical stresses which might result in a hazardous situation and have to be avoided

strong shocks

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

This mixture does not meet the criteria for classification.

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Trisodium nitrilotriacetate	5064-31-3	oral	1,740 mg/kg
Potassium hydroxide	1310-58-3	oral	333 mg/kg
2-aminoethanol	141-43-5	oral	1,089 mg/kg
2-aminoethanol	141-43-5	inhalation: vapour	11 mg/l/4h

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Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Carcinogenicity

- National Toxicology Program (United States): none of the ingredients are listed
- IARC Monographs

Name of substance	Name acc. to inventory	CAS No	Classification	Number
Trisodium nitrilotriacetate	nitrilotriacetic acid, salts		2B	

Legend

2B Possibly carcinogenic to humans.

- OSHA Carcinogens (United States) none of the ingredients are listed

Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Trisodium nitrilotriacetate	5064-31-3	LC50	114 mg/l	fish	96 h
Trisodium nitrilotriacetate	5064-31-3	EC50	98 mg/l	aquatic invertebrates	96 h
Trisodium nitrilotriacetate	5064-31-3	ErC50	>91.5 mg/l	algae	72 h
2-aminoethanol	141-43-5	LC50	349 mg/l	fish	96 h
2-aminoethanol	141-43-5	EC50	65 mg/l	aquatic invertebrates	48 h
2-aminoethanol	141-43-5	ErC50	2.8 mg/l	algae	72 h
Sodiumhydroxide	1310-73-2	EC50	40.4 mg/l	aquatic invertebrates	48 h

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Aquatic toxicity (chronic)

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
2-aminoethanol	141-43-5	EC50	2.5 mg/l	aquatic invertebrates	21 d

12.2 Persistence and degradability

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
Trisodium nitrilotriacetate	5064-31-3	DOC removal	>95 %	28 d
2-aminoethanol	141-43-5	DOC removal	>90 %	21 d

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
2-aminoethanol	141-43-5	2.3	-2.3 (25 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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SECTION 14: Transport information

- 14.1** UN number not subject to transport regulations
- 14.2** UN proper shipping name not relevant
- 14.3** Transport hazard class(es)
Class -
- 14.4** Packing group not relevant
- 14.5** Environmental hazards none (non-environmentally hazardous acc. to the dangerous goods regulations)
- 14.6** Special precautions for user
There is no additional information.
- 14.7** Transport in bulk according to Annex II of MARPOL and the IBC Code
The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

- **International Maritime Dangerous Goods Code (IMDG)**
not subject to IMDG
- **International Civil Aviation Organization (ICAO-IATA/DGR)**
not subject to ICAO-IATA

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA) all ingredients are listed

Superfund Amendment and Reauthorization Act (SARA TITLE III)

The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304) none of the ingredients are listed

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
Potassium hydroxide	1310-58-3		1	1000 (454)
Sodiumhydroxide	1310-73-2		1	1000 (454)

legend

1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act.

Clean Air Act none of the ingredients are listed

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Right to Know Hazardous Substance List

Cleaning Product Right to Know Act Substance List (CA-RTK)

Name of substance	CAS No	Functionality	Authoritative Lists
Trisodium nitrilotriacetate			IARC Carcinogens - 2B
Sodiumhydroxide	1310-73-2		OEHHA RELs

Toxic or Hazardous Substance List (MA-TURA)

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
Potassium hydroxide	1310-58-3				1.0 %
Sodiumhydroxide	1310-73-2				1.0 %

Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
2-aminoethanol	141-43-5		CO F2
Potassium hydroxide	1310-58-3		CO R1
Sodiumhydroxide	1310-73-2		CO R1

legend

- CO Corrosive.
- F2 Flammable - Second Degree.
- R1 Reactive - First Degree.

Hazardous Substance List (Chapter 323) (PA-RTK)

Name of substance	CAS No	Classification
Potassium hydroxide	1310-58-3	E

legend

- E Environmental hazard.

Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
2-aminoethanol	141-43-5	T, F
2-aminoethanol	141-43-5	T, F
2-aminoethanol	141-43-5	T, F
Potassium hydroxide	1310-58-3	T, F
Potassium hydroxide	1310-58-3	T, F
Potassium hydroxide	1310-58-3	T, F
Sodiumhydroxide	1310-73-2	T, F
Sodiumhydroxide	1310-73-2	T, F
Sodiumhydroxide	1310-73-2	T, F

legend

- F Flammability (NFPA®).
- T Toxicity (ACGIH®).

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Drug precursors, Controlled Substances Act (21 U.S.C. § 802) none of the ingredients are listed

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System (American Coatings Association)

Category	Rating	Description
Chronic	*	Chronic (long-term) health effects may result from repeated overexposure.
Health	0	No significant risk to health.
Flammability	0	Material that will not burn under typical fire conditions.
Physical hazard	0	Material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive.
Personal protection	-	

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States)

Category	Degree of hazard	Description
Flammability	0	Material that will not burn under typical fire conditions.
Health	0	Material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material.
Instability	0	Material that is normally stable, even under fire conditions.
Special hazard		

National inventories

Country	Inventory	Status
EU	REACH Reg.	not all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)
CA	DSL/NDSL	all ingredients are listed or exempt from listing

legend

DSL/NDSL Domestic Substances List (DSL)/Non-domestic Substances List (NDSL).

REACH Reg. REACH registered substances.

TSCA Toxic Substance Control Act.

SECTION 16: Other information

Abbreviations and acronyms

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Abbr.	Descriptions of used abbreviations
"BC Regulation"	OHS Regulation: Section 5.48 (British Columbia)
ACGIH®	American Conference of Governmental Industrial Hygienists
Acute Tox.	Acute toxicity
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
COD	Chemical oxygen demand
DEP CODE	Department of Environmental Protection Code
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HHS	Higher hazard substance
IARC	International Agency for Research on Cancer
IARC Mono-graphs	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LHS	Lower hazard substance

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Abbr.	Descriptions of used abbreviations
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
Met. Corr.	Substance or mixture corrosive to metals
MoL	Ministry of Labor: Current Occupational Exposure Limits for Ontario Workplaces Required under Regulation 833
NFPA®	National Fire Protection Association (United States)
NFPA® 704	National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States)
NLP	No-Longer Polymer
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OHS Code	Occupational Health and Safety Code: Occupational exposure limits for chemical substances (Alberta)
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Regulation OHS	Regulation respecting occupational health and safety: Permissible exposure values for airborne contaminants (Quebec)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

- OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200
- 49 CFR § 172.101 Hazardous Materials Table (DOT)

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards/Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H227	Combustible liquid.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.

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Code	Text
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.