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*****PROPOSAL*****

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Commercial Product Name : 670 Activator / Primer

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

Specific use(s) : Primer

1.3. Details of the supplier of the safety data sheet

Company : REVEX Inc.
3190 Martin Road
Walled Lake Michigan 48390, USA

1.4. Emergency telephone number

Emergency telephone : (This telephone number is available during office hours only.)

Country	Official advisory body	Address	Emergency number
IRELAND (REPUBLIC OF)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9Dublin	+353 1 8379964
UNITED KINGDOM	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QHBirmingham	0870 600 6266 (UK only)

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EU) 1272/2008

Mixture: Classification (CLP): not required

2.1.2. Classification according to EU Directives 67/548/EEC or 1999/45/EC

Classification : The mixture is classified as dangerous in accordance with Directive 1999/45/EC.

F; R11
Xi; R36
R66
R67

Full text of R-phrases: see section 16.

2.2 Label elements

2.2.1. Labelling according to Regulation (EU) 1272/2008

Mixture: Classification (CLP): not required

2.2.2. Labelling according to Directives (67/548/EEC - 1999/45/EC)

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Symbol(s):

:



Xi - irritating F - Highly flammable.

R-phrase(s)

- : R11 - Highly flammable.
R36 - Irritating to eyes.
R66 - Repeated exposure may cause skin dryness or cracking.
R67 - Vapours may cause drowsiness and dizziness.

S-phrases

- : S9 - Keep container in a well-ventilated place.
S16 - Keep away from sources of ignition - No smoking.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

2.3. Other hazards

other hazards which do not result in classification

: no data available .,Results of PBT and vPvB assessment :

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

Substance name	Product identifier	%	Classification according to Directive 67/548/EEC
Acetone	(CAS No.) 67-64-1 (EC No) 200-662-2 (EC Index) 606-001-00-8	60 - 100	F; R11 Xi; R36 R66 R67
Butanal, reaction products with aniline	(CAS No.) 68411-20-1 (EC No) 270-109-8	10 - 30	Not classified

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acetone	(CAS No.) 67-64-1 (EC No) 200-662-2 (EC Index) 606-001-00-8	60 - 100	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Butanal, reaction products with aniline	(CAS No.) 68411-20-1 (EC No) 270-109-8	10 - 30	Not classified

Full text of R-, H- and EUH-phrases: see section 16.

4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

- : Keep at rest.
Move to fresh air.
Oxygen or artificial respiration if needed.
Call a physician immediately.

Skin contact

- : Wash immediately with soap and plenty of water.
Take off contaminated clothing and shoes immediately.
Wash contaminated clothing before re-use.
If skin irritation persists, call a physician.

Eye contact

- : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Call a physician immediately.

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- Ingestion : Do NOT induce vomiting.
 Drink plenty of water.
 Never give anything by mouth to an unconscious person.
 Consult a doctor/medical service if you feel unwell
- Additional advice : Never give anything by mouth to an unconscious person.
 Show this safety data sheet to the doctor in attendance.
 Treat symptomatically.

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

- Inhalation : Vapours may cause drowsiness and dizziness. Inhalation may provoke the following symptoms: sore throat Cough Mental confusion headache Unconsciousness
- Skin contact : Repeated exposure may cause skin dryness or cracking.
- Eye contact : Irritating to eyes. Eye contact may provoke the following symptoms: Redness Pain blurred vision
- Ingestion : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

4.3. Indication of immediate medical attention and special treatment needed

No data available

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

- Suitable extinguishing media : Use dry chemical, CO2, water spray or alcohol resistant foam.
- Extinguishing media which shall not be used for safety reasons : High volume water jet

5.2. Special hazards arising from the substance or mixture

- Specific hazards : Evacuate personnel to safe areas. Highly flammable. Vapours may form explosive mixture with air. Vapours are heavier than air and may spread along floors. Flash back possible over considerable distance. Cool containers / tanks with water spray. Possible decomposition products are: COx, NOx. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3. Advice for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- Advice for non-emergency personnel : Wear personal protective equipment. See also section 8. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Ensure all equipment is electrically grounded before beginning transfer operations.
- Advice for emergency responders : Only qualified personnel equipped with suitable protective equipment may intervene. See also section 8.

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6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Prevent further leakage or spillage if safe to do so. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations.

6.4. Reference to other sections

See also section 13. See also section 8.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling : Wear personal protective equipment. See also section 8 Keep away from open flames, hot surfaces and sources of ignition. Do not smoke. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Always replace cap after use. Do not burn, or use a cutting torch on, the empty drum. Do not puncture or incinerate. Ensure all equipment is electrically grounded before beginning transfer operations.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Do not store near or with any of the incompatible materials listed in section 10.

7.3. Specific end use(s)

No data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Component	: Acetone (67-64-1)
TLV-TWA (ppm)	: 750
TLV-TWA (mg/m ³)	: 1210 (Belgium, the Netherlands, France, Germany, UK, Portugal, Spain, Slovenia, Croatia), 1200 (Finland), 600 (Sweden, Denmark), 295 (Norway)
TLV-STEL (ppm)	: 1000
TLV-STEL (mg/m ³)	: 2420 (Belgium, the Netherlands), 3620 (United Kingdom), 1200 (Sweden), 1500 (Finland)

8.2. Exposure controls

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment. Recommended Filter type: (Type AX - EN 141) Respirator with a half face mask (EN 140) Full face mask (EN 136)

Hand protection : Neoprene gloves - Rubber gloves (EN 374) The selection of specific gloves

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for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.

Eye protection	: Safety glasses (EN166)
Engineering measures	: Use only in area provided with appropriate exhaust ventilation.
Environmental exposure controls	: Do not flush into surface water or sanitary sewer system.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	: liquid
Colour	: light yellow
Odour	: acetone odour
Odour threshold (mg/m ³)	: no data available mg/m ³
Odour threshold (ppm)	: no data available ppm
pH	: no data available
Melting point/range	: no data available
Freezing point	: no data available °C
Boiling point/boiling range	: 56,1 °C
Flash point	: -19
Evaporation rate	: no data available
Explosion limits	: no data available
Vapour pressure	: 180 mm @ 20°C
Vapour density	: 2
Density	: 0,813 g/cm ³ @ 20°C
Relative density	: no data available
Water solubility	: soluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Autoignition temperature	: no data available °C
Decomposition temperature	: no data available °C
Viscosity	: no data available
Explosive properties	: not applicable
Oxidizing properties	: no data available

9.2. Other information

Pour point	: no data available °C
Drop point	: no data available °C
Surface tension	: no data available mN/m
Molecular Weight	: no data available g/mol
Volatile organic compounds (VOC) content	: 8,39 %

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10. STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity : Flammable liquid
See also section 10.5

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials : Oxidizing agents , Strong acids , Cyanides , Bases .

10.6. Hazardous decomposition products

Hazardous decomposition products : Possible decomposition products are: COx, NOx.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity : Not classified (Not classified due to data which are conclusive although insufficient for classification.)

Acetone (67-64-1)	
LD50/oral/rat	5800 mg/kg
ATE (oral)	5800,000 mg/kg

Irritation : Irritating to eyes.
pH: no data available

Corrosivity : Not classified (Not classified due to data which are conclusive although insufficient for classification.)
pH: no data available

Sensitisation : Not classified (Not classified due to data which are conclusive although insufficient for classification.)

Repeated dose toxicity : Not classified (Not classified due to data which are conclusive although insufficient for classification.)

Carcinogenicity : Not classified (Not classified due to data which are conclusive although insufficient for classification.)

Mutagenicity : Not classified (Not classified due to data which are conclusive although insufficient for classification.)

Reproductive toxicity : Not classified (Not classified due to data which are conclusive although insufficient for classification.)

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Further information

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects : No adverse effects are expected.
Component : **Acetone (67-64-1)**
 LC50/96h/fish : 5540 mg/l (Salmo gairdneri)

12.2. Persistence and degradability

Persistence and degradability : Readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation : log Pow = -0.27
 Partition coefficient: n-octanol/water : no data available

12.4. Mobility in soil

Surface tension : no data available mN/m

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues / unused products : Dispose of as hazardous waste in compliance with local and national regulations.
 Contaminated packaging : Empty containers should be transported/delivered using a registered waste carrier to local recyclers for disposal.
 Additional ecological information : Do not flush into surface water or sanitary sewer system.
 Codes of waste (2001/573/EC, 75/442/EEC, 91/689/EEC) : Waste codes should be assigned by the user based on the application for which the product was used.

14. TRANSPORT INFORMATION

14.1. UN Number

UN-No. : 1090

14.2. UN proper shipping name

Proper shipping name : ACETONE
 (SOLUTION)
 Proper shipping name IATA/IMDG : ACETONE SOLUTION

14.3. Transport hazard class(es)

14.3.1. Overland transport

Class : 3 - 0
 Hazard identification number (Kemler No.) : 33
 Classification code : F1

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ADR/RID-Labels : 3 - Flammable liquid



Tunnel restriction code : D/E
 Limited quantities (ADR) : LQ04
 Excepted quantities (ADR) : E2

14.3.2. Inland waterway transport (ADN/ADNR)

Class (ADNR) : 3

14.3.3. Transport by sea

Class : 3
 EmS : F-E, S-D

14.3.4. Air transport

Class : 3

14.4. Packing group

Packing group : II

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for users

No data available

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

No data available

15. REGULATORY INFORMATION

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

15.1.1. EU-Regulations

Authorisations and/or restrictions on use : not applicable
 (Annex XVII)

15.1.2. National regulations

WGK : 1

15.2. Chemical Safety Assessment

Chemical Safety Assessment : no data available

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16. OTHER INFORMATION

Text of R phrases mentioned in Section 3 : R11 -Highly flammable.
R36 -Irritating to eyes.
R66 -Repeated exposure may cause skin dryness or cracking.
R67 -Vapours may cause drowsiness and dizziness.

Full text of H-Statements referred to under sections 2 and 3. : H225 -Highly flammable liquid and vapour.
H319 -Causes serious eye irritation.
H336 -May cause drowsiness or dizziness.

Sources of key data used to compile the datasheet : European Chemicals Bureau
Supplier MSDS.

Abbreviations and acronyms :

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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