Version 2，2026

安全技术说明书
SAFETY DATA SHEET

-- Ham's F-12K

第1部分：化学品及企业标识
SECTION 1: Identification of the substance/mixture and of the company/undertaking

产品名称 **Product Name:**	Ham's F-12K
公司/企业信息 **Company:**	上海东富龙生物试剂有限公司 Shanghai Tofflon Bio-reagent Co., Ltd
地址 **Address：**	上海闵行区都会路139号 No. 139 Duhui Road, Minhang District, Shanghai
电话 **Telephone:**	+86 21 64909996
产品编号 **Product Number:**	DP38

第2部分：危险性概述
SECTION 2: Hazards identification

GHS分类和标签要素，包括防范声明：
GHS classification and label elements, including precautionary statements:

非危险物质或混合物。

Not classified as a hazardous substance or mixture.

成分或混合物类型：
Type of composition or mixture:

非危险物质或混合物。

Not classified as a hazardous substance or mixture.

其他危害：
Hazards not covered by other classifications (HNOC) or GHS:

无No

第3部分：成分/组分信息
SECTION 3: Composition/information on ingredients

物质/混合物Uniform product or mixture:

混合物

Mixture

预期用途Intended use:

仅用于研究或工业化生产。不适用于人或动物的诊断和治疗用途。

For research use or further manufacturing. Not for diagnostic use or direct administration into humans or animals.

成分/组成信息Composition/information on ingredients:

本品不含在其给定浓度下对健康有危害的物质，我们建议小心操作所有的化学品。

The product contains no substances which at their given concentration are considered to be hazardous to health. We recommend handling all chemicals with caution.

危险组分Hazardous ingredients:

无危险

Not hazardous

第4部分：急救措施
SECTION 4: First aid measures

吸入Inhalation:

如果吸入，无需采取特殊预防措施

No special precautions are required if breathed in.

皮肤接触Skin contact:

用肥皂和大量清水冲洗

Rinse with soap and plenty of water.

眼睛接触Eye contact:

立即用大量的水冲洗

Rinse immediately with plenty of water.

摄入Ingestion:

在预期的正常使用条件下预计不产生明显的摄入危害物。如果感觉不舒服，请就医。

Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

对医师的备注Note to physicians:

对症治疗

Treat according to symptoms.

第5部分：消防措施
SECTION 5: Firefighting measures

灭火介质Extinguishing media:

水，泡沫，化学干粉，二氧化碳

Water, alcohol-resistant foam, dry chemicals, carbon dioxide.

物质或混合物引起的特殊危害Special hazards arising from the substance or mixture:

不详

The nature of the decomposition products is not known.

对消防员的建议Advice for firefighters:

如有必要，应配备独立的灭火器进行灭火

If necessary, an independent fire extinguisher should be equipped to extinguish the fire.

对消防员的防护Protection for firefighters:

在逆风处进行消防活动，避免吸入危险气体，必要时佩戴自给式呼吸器进行灭火

Perform firefighting activities upwind, avoiding the inhalation of hazardous gasses. Wear self-contained breathing apparatus for firefighting if necessary.

更多信息More information:

用水喷雾冷却未开封的瓶子

Use water spray to cool unopened bottles.

第6部分：泄露应急措施
SECTION 6: Accidental release measures

个人预防措施Personal precautions:

避免吸入蒸汽、薄雾或气体。使用个人防护装备

Avoid breathing vapor, mist or gas. Use personal protective equipment.

环境保护措施Environmental precautions:

不要让产品进入下水道。在进行适当处理之前，确保受污染的废水不会释放到环境中

Do not let product enter drains. Ensure that contaminated waste water is not released into the environment before being properly treated.

围堵与清理的方法及材料Methods and materials for sealing and cleaning：

控制溢出物，然后在没有可燃吸收材料的情况下收集。在合适的封闭容器中处理受污染的物品

Control spillage and then collect them without combustible absorbent material. Dispose of contaminated items in suitable closed containers.

第7部分：操作处置与储存
SECTION 7: Handling and storage

安全操作预防措施Precautions for safe handling:

无需采取特殊预防措施

No special precautions required.

安全储存条件Conditions for safe storage:

储存温度2 ~ 8℃，避光

Store at 2 ~ 8℃ protected from light.

安全操作注意事项Safety handling precautions:

使用前获取说明书

Obtain instruction before use.

特殊用途Specific use:

没有可用的数据

No data available.

第8部分：接触控制/个体防护
SECTION 8: Exposure controls/personal protection

控制参数Control parameters:

控制浓度：没有可用数据

Control concentration: No data available

中国职业卫生学会：未建立

Permissive concentration China Society for Occupational Health: Not established

ACGIH TLV(S) ：未建立

ACGIH TLV(S): Not established

OSHA PEL：未建立

OSHA PEL: Not established

暴露限值Limitation of exposure:

不含有具有职业暴露极限值的物质

No substances with operational exposure limits.

暴露控制Exposure Control:

避免飞溅并确保通风

Avoid splashes and ensure ventilation.

个人防护设备Protective equipment:

呼吸防护：如若通风不良，请佩戴以适当的政府标准测试和批准的呼吸器及组件

Respiratory protection: If ventilation is required or insufficient, wear respirator and components which tested and approved by appropriate government standards.

手部防护：防护手套

Hand protection: Protective gloves.

眼睛防护：防护眼镜

Eye protection: Protective eyewear.

皮肤和身体防护：防护服

Skin and Body protection: Protective clothing.

卫生措施：一般工业卫生规程

Sanitary practices: General industrial sanitary practices.

环境暴露控制Control of environmental exposure：

如果能够确保安全，可以采取措施防止进一步的泄漏式溢出，不要让产品进入下水道

If safety can be ensured, measures can be taken to prevent further leaks or spills. Don't let the product go down the drain.

避免排放到周围环境中

Avoid discharge into the surrounding environment.

第9部分：理化特性
SECTION 9: Physical and chemical properties

形状Form:	粉末 Powder
气味Odor:	没有可用数据 No data available
沸点/沸程Boiling point/Boiling range:	没有可用数据 No data available
熔点/溶化范围Melting point/Melting range:	没有可用数据 No data available
蒸发率Evaporation rate:	没有可用数据 No data available
闪点Flash point:	没有可用数据 No data available
自燃温度Auto-ignition temperature:	没有可用数据 No data available
蒸气压Vapor pressure:	没有可用数据 No data available
蒸气密度Vapor density:	没有可用数据 No data available
氧化性Oxidizing properties:	没有可用数据 No data available
溶解度Solubility:	溶于水 Dissolves in water
比重Specific gravity:	没有可用数据 No data available

第10部分：稳定性和反应性

SECTION 10: Stability and reactivity

稳定性Stability:

稳定Stable

反应性Reactivity:

没有可用数据No data available

危险反应可能性The possibility of a dangerous reaction:

没有可用数据No data available

应避免的条件Conditions to avoid:

避光Avoid light

禁配物 Incompatible material:

强氧化剂Strong oxidants

危险分解产物 Hazardous decomposition:

正常使用条件下无None under normal use conditions

火灾条件下形成的危险分解产物 Dangerous decomposition products formed under fire conditions:

没有可用数据No data available

第11部分：毒理学信息
SECTION 11: Toxicological information

毒理学影响的信息Information on toxicological effects:

急性毒性Acute toxicity:	没有可用数据资料No data available
皮肤腐蚀/刺激Skin corrosion/irritation:	没有可用数据资料No data available
严重眼部损伤/眼刺激Severe eye injury/eye irritation:	没有可用数据资料No data available
呼吸或皮肤过敏Respiratory system or skin sensitization:	没有可用数据资料No data available
生殖细胞致突变性Germ cell mutagenicity:	没有可用数据资料No data available
致癌性Carcinogenicity:	没有可用数据资料No data available
生殖毒性Reproductive toxicity:	没有可用数据资料No data available
特异性靶器官系统毒性Specific target organ toxicity:	在正常使用条件下无已知影响 No known effects under normal conditions of use
吸入危害Aspiration hazard:	没有可用数据资料No data available

第12部分：生态学信息
SECTION 12: Ecological information

生态毒性Ecotoxicity：

水生生物毒性Aquatic toxicity:	没有可用数据No data available

持久性/可降解性Persistence/Degradability: 没有可用数据No data available

潜在的生物累积性Bioaccumulative potential: 没有可用数据No data available

土壤中的迁移性Mobility in soil: 没有可用数据No data available

其他环境有害作用Other adverse effects: 没有可用数据No data available

第13部分：废弃处置
SECTION 13: Disposal considerations

废物处理方法Waste treatment methods:

根据当地政府和其他适用法规处理

Dispose according to local public and other applicable regulations.

包装废弃物应回收

Waste packaging should be recycled.

第14部分：运输信息
SECTION 14: Transport information

交通部 Ministry of Communications:

非危险货物Non-dangerous goods

国际海上危险货物运输条例 International Maritime Dangerous Goods Transport Regulations:

非危险货物Non-dangerous goods

国际航空运输协会 International Air Transport Association:

非危险货物Non-dangerous goods

第15部分：法规信息
SECTION 15: Regulatory information

工作场所化学品安全使用条例等法规，对危险化学品的安全使用、生产、储存、运输、卸载等作出了相应规定。

Regulations on the safe use of chemicals in the workplace and other regulations, have made corresponding regulations on the safe use, production, storage, transportation, and unloading of hazardous chemicals.

《物质管制法》Substances Control Law:	不适用Not applicable
《工业安全与健康法》Industrial Safety and Health Law:	不适用Not applicable
《化学品管理法》（《污染物排放和转移登记法》）Law for promotion of Chemical Management (Pollutant Release and Transfer Register Law):	不适用Not applicable
《消防法》Fire Service Law:	不适用Not applicable
《船舶安全法》（《船上危险货物运输和储存条例》）Ship Safety Law (Regulations for the Carriage and Storage of Dangerous Goods in Ship):	不适用Not applicable
《民用航空法》Civil Aeronautics Law:	不适用Not applicable

第16部分：其它信息
SECTION 16: Other information

参考文献 References:

Globally Harmonized System of classification and labeling of chemicals, (Current Edition), UN
Recommendations on the TRANSPORT OF DANGEROUS GOODS (Current Edition), UN
Classification, labeling and packaging of substances and mixtures (table3-1 ECNO618)
2012 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
TLVs and BEIs. (ACGIH) (Current Edition)
JISZ7253 (Current Edition)
JISZ7252 (Current Edition)
2015 Recommendation for allowable concentrations (Japan Society for Occupational Health)
Supplier's data/information

职责 Responsibilities:

上述信息视为正确，但不包含所有的信息，仅作为指引使用。本文件中的信息是基于我们目前所知的，就正确的安全提示来说适用于本品。

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. In this document. The information is based on our current knowledge and appropriate safety precautions applied to the product.

上海东富龙生物试剂有限公司对任何操作或者接触上述产品而引起的损害不负有任何责任。

Shanghai Tofflon Bio-reagent Co., Ltd. shall not be liable for any damage caused by handling or contact with the above products.

用户有责任根据实际使用情况制定适当的处理方法和个人防护方法。

It is the user's responsibility to develop appropriate handling methods and personal protection methods according to the actual use situation.

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