

Prodction

Formula

Version 1.0, 19.03.2021

http Request

request

```
GET /api/product/formula HTTP/1.1
Host: localhost:8080
```

response

```
HTTP/1.1 200 OK
Vary: Origin
Vary: Access-Control-Request-Method
Vary: Access-Control-Request-Headers
Content-Type: application/json;charset=UTF-8
Content-Length: 22
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY

"Api :FormulaResource"
```

index index Formula With Params

IMPORTANT

Params

- Param(defaultValue = "0") Integer page.
- Param(defaultValue = "200") Integer size.
- Param(defaultValue = "id,desc") String[] sort.
- Param(required = false) String[] query.

request

```
GET /api/product/formula/index?page=0&page=0&size=2&sort=id%2Cdesc HTTP/1.1
Host: localhost:8080
```

response

HTTP/1.1 200 OK
Vary: Origin
Vary: Access-Control-Request-Method
Vary: Access-Control-Request-Headers
Content-Type: application/json; charset=UTF-8
Content-Length: 3632
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY

```
[ {  
  "product" : {  
    "productionUnit" : {  
      "name" : "Frais Caprices I",  
      "active" : true,  
      "id" : 1  
    },  
    "code" : "IMM",  
    "codeDes" : "Impérial Mix  En Seau Moyenne Format De 5 kg",  
    "siUnit" : {  
      "symbol" : "u",  
      "quantityName" : "quantité",  
      "name" : "unité",  
      "active" : true,  
      "id" : 1  
    },  
    "metaDataValues" : [ ],  
    "name" : "Impérial Mix 5 kg",  
    "packaging" : {  
      "name" : "seau en plastique",  
      "id" : 24  
    },  
    "id" : 2,  
    "classification" : {  
      "parent" : {  
        "parent" : {  
          "code" : "GIP",  
          "level" : 0,  
          "name" : "intrants pâtisseries",  
          "active" : true,  
          "id" : 2  
        },  
        "code" : "FF",  
        "level" : 1,  
        "name" : "fourrage",  
        "active" : true,  
        "id" : 13  
      }  
    }  
  }  
}
```

```

    },
    "code" : "DFE",
    "level" : 2,
    "children" : [ ],
    "name" : "emulsifiants",
    "active" : true,
    "id" : 34
  },
  "productType" : {
    "name" : "Produits Finis",
    "icon" : "box",
    "id" : 1
  },
  "createDate" : "2020-01-01T01:00:00"
},
"formulaProducts" : [ ],
"code" : "Formula code",
"formulaNotes" : [ {
  "note" : {
    "color" : "#000000",
    "modifyDate" : "2022-03-19T08:39:29",
    "active" : true,
    "id" : 7433,
    "content" : "Hello Fayssal content updateFormula",
    "createDate" : "2022-03-19T08:39:29"
  },
  "modifyDate" : "2022-03-19T08:39:29",
  "active" : true,
  "id" : 7434,
  "createDate" : "2022-03-19T08:39:29"
} ],
"modifyDate" : "2022-03-19T08:39:29",
"name" : "updateFormula",
"obsolete" : false,
"active" : true,
"id" : 7425,
"createDate" : "2022-03-19T08:39:28"
}, {
  "product" : {
    "productionUnit" : {
      "name" : "Frais Caprices I",
      "active" : true,
      "id" : 1
    },
    "code" : "IMM",
    "codeDes" : "Impérial Mix En Seau Moyenne Format De 5 kg",
    "siUnit" : {
      "symbol" : "u",
      "quantityName" : "quantité",
      "name" : "unité",
      "active" : true,

```

```

    "id" : 1
  },
  "metaDataValues" : [ ],
  "name" : "Impérial Mix 5 kg",
  "packaging" : {
    "name" : "seau en plastique",
    "id" : 24
  },
  "id" : 2,
  "classification" : {
    "parent" : {
      "parent" : {
        "code" : "GIP",
        "level" : 0,
        "name" : "intrants pâtisseries",
        "active" : true,
        "id" : 2
      },
      "code" : "FF",
      "level" : 1,
      "name" : "fourrage",
      "active" : true,
      "id" : 13
    },
    "code" : "DFE",
    "level" : 2,
    "children" : [ ],
    "name" : "émulsifiants",
    "active" : true,
    "id" : 34
  },
  "productType" : {
    "name" : "Produits Finis",
    "icon" : "box",
    "id" : 1
  },
  "createDate" : "2020-01-01T01:00:00"
},
"formulaProducts" : [ ],
"code" : "Formula code",
"formulaNotes" : [ {
  "note" : {
    "color" : "#000000",
    "modifyDate" : "2022-03-19T08:38:40",
    "active" : true,
    "id" : 7423,
    "content" : "Hello Fayssal content updateFormula",
    "createDate" : "2022-03-19T08:38:40"
  },
  "modifyDate" : "2022-03-19T08:38:40",
  "active" : true,

```

```

      "id" : 7424,
      "createDate" : "2022-03-19T08:38:40"
    } ],
    "modifyDate" : "2022-03-19T08:39:27",
    "name" : "updateFormula",
    "obsolete" : false,
    "active" : true,
    "id" : 7415,
    "createDate" : "2022-03-19T08:38:40"
  } ]

```

save

request

```

POST /api/product/formula/save HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 7183
Host: localhost:8080

{
  "id" : null,
  "code" : "Formula code",
  "name" : "Formula name Test",
  "product" : {
    "id" : 2,
    "name" : "Impérial Mix 5 kg",
    "code" : "IMM",
    "codeDes" : "Impérial Mix En Seau Moyenne Format De 5 kg",
    "classification" : {
      "id" : 34,
      "name" : "emulsifiants",
      "code" : "DFE",
      "level" : 2,
      "active" : true,
      "createDate" : null,
      "modifyDate" : null
    },
    "packaging" : {
      "id" : 24,
      "name" : "seau en plastique",
      "active" : true,
      "createDate" : null,
      "modifyDate" : null
    },
    "productionUnit" : {
      "id" : 1,
      "name" : "Frais Caprices I",
      "createDate" : null,
      "modifyDate" : null,

```

```

    "active" : true
  },
  "productType" : {
    "id" : 1,
    "name" : "Produits Finis",
    "active" : true,
    "icon" : "box",
    "metaData" : [ ],
    "createDate" : null,
    "modifyDate" : null
  },
  "siUnit" : {
    "id" : 1,
    "name" : "unité",
    "quantityName" : "quantité",
    "symbol" : "u",
    "active" : true,
    "createDate" : null,
    "modifyDate" : null
  },
  "description" : null,
  "active" : true,
  "metaDataValues" : [ ],
  "createDate" : 1577836800000,
  "modifyDate" : null
},
"formulaNotes" : [ {
  "id" : null,
  "note" : {
    "id" : null,
    "content" : "Hello Fayssal content",
    "color" : "#000000",
    "active" : true,
    "createDate" : null,
    "modifyDate" : null
  },
  "active" : true,
  "createDate" : null,
  "modifyDate" : null
}, {
  "id" : null,
  "note" : {
    "id" : null,
    "content" : "Hello Fayssal content",
    "color" : "#000000",
    "active" : true,
    "createDate" : null,
    "modifyDate" : null
  },
  "active" : true,
  "createDate" : null,

```

```

    "modifyDate" : null
  } ],
  "formulaProducts" : [ {
    "id" : null,
    "product" : {
      "id" : 1,
      "name" : "Impérial Mix 15 kg",
      "code" : "IMP",
      "codeDes" : "Impérial Mix En Seau Petite Format De 15 kg",
      "classification" : {
        "id" : 33,
        "name" : "crèmes de patisserie",
        "code" : "CDP",
        "level" : 2,
        "active" : true,
        "createDate" : null,
        "modifyDate" : null
      },
      "packaging" : {
        "id" : 2,
        "name" : "bidon de 5 kg de capacité",
        "active" : true,
        "createDate" : null,
        "modifyDate" : null
      },
      "productionUnit" : {
        "id" : 1,
        "name" : "Frais Caprices I",
        "createDate" : null,
        "modifyDate" : null,
        "active" : true
      },
      "productType" : {
        "id" : 1,
        "name" : "Produits Finis",
        "active" : true,
        "icon" : "box",
        "metaData" : [ ],
        "createDate" : null,
        "modifyDate" : null
      },
      "siUnit" : {
        "id" : 2,
        "name" : "kilogramme",
        "quantityName" : "masse",
        "symbol" : "kg",
        "active" : true,
        "createDate" : null,
        "modifyDate" : null
      },
      "description" : null,

```

```

    "active" : false,
    "metaDataValues" : [ ],
    "createDate" : null,
    "modifyDate" : 1640944893000
  },
  "siUnit" : {
    "id" : 1,
    "name" : "unité",
    "quantityName" : "quantité",
    "symbol" : "u",
    "active" : true,
    "createDate" : null,
    "modifyDate" : null
  },
  "active" : false,
  "createDate" : null,
  "modifyDate" : null,
  "quantity" : 10.0
}, {
  "id" : null,
  "product" : {
    "id" : 1,
    "name" : "Impérial Mix 15 kg",
    "code" : "IMP",
    "codeDes" : "Impérial Mix En Seau Petite Format De 15 kg",
    "classification" : {
      "id" : 33,
      "name" : "crèmes de patisserie",
      "code" : "CDP",
      "level" : 2,
      "active" : true,
      "createDate" : null,
      "modifyDate" : null
    },
    "packaging" : {
      "id" : 2,
      "name" : "bidon de 5 kg de capacité",
      "active" : true,
      "createDate" : null,
      "modifyDate" : null
    },
    "productionUnit" : {
      "id" : 1,
      "name" : "Frais Caprices I",
      "createDate" : null,
      "modifyDate" : null,
      "active" : true
    },
    "productType" : {
      "id" : 1,
      "name" : "Produits Finis",

```



```

    "active" : true,
    "icon" : "box",
    "metaData" : [ ],
    "createDate" : null,
    "modifyDate" : null
  },
  "siUnit" : {
    "id" : 2,
    "name" : "kilogramme",
    "quantityName" : "masse",
    "symbol" : "kg",
    "active" : true,
    "createDate" : null,
    "modifyDate" : null
  },
  "description" : null,
  "active" : false,
  "metaDataValues" : [ ],
  "createDate" : null,
  "modifyDate" : 1640944893000
},
"siUnit" : {
  "id" : 2,
  "name" : "kilogramme",
  "quantityName" : "masse",
  "symbol" : "kg",
  "active" : true,
  "createDate" : null,
  "modifyDate" : null
},
"active" : false,
"createDate" : null,
"modifyDate" : null,
"quantity" : 10.0
}, {
  "id" : null,
  "product" : {
    "id" : 1,
    "name" : "Impérial Mix 15 kg",
    "code" : "IMP",
    "codeDes" : "Impérial Mix En Seau Petite Format De 15 kg",
    "classification" : {
      "id" : 33,
      "name" : "crèmes de patisserie",
      "code" : "CDP",
      "level" : 2,
      "active" : true,
      "createDate" : null,
      "modifyDate" : null
    },
  },
  "packaging" : {

```

```

      "id" : 2,
      "name" : "bidon de 5 kg de capacité",
      "active" : true,
      "createDate" : null,
      "modifyDate" : null
    },
    "productionUnit" : {
      "id" : 1,
      "name" : "Frais Caprices I",
      "createDate" : null,
      "modifyDate" : null,
      "active" : true
    },
    "productType" : {
      "id" : 1,
      "name" : "Produits Finis",
      "active" : true,
      "icon" : "box",
      "metaData" : [ ],
      "createDate" : null,
      "modifyDate" : null
    },
    "siUnit" : {
      "id" : 2,
      "name" : "kilogramme",
      "quantityName" : "masse",
      "symbol" : "kg",
      "active" : true,
      "createDate" : null,
      "modifyDate" : null
    },
    "description" : null,
    "active" : false,
    "metaDataValues" : [ ],
    "createDate" : null,
    "modifyDate" : 1640944893000
  },
  "siUnit" : {
    "id" : 2,
    "name" : "kilogramme",
    "quantityName" : "masse",
    "symbol" : "kg",
    "active" : true,
    "createDate" : null,
    "modifyDate" : null
  },
  "active" : false,
  "createDate" : null,
  "modifyDate" : null,
  "quantity" : 10.0
} ],

```

```
"active" : true,  
"createDate" : null,  
"modifyDate" : null,  
"obsolete" : false  
}
```

response

```
HTTP/1.1 200 OK  
Vary: Origin  
Vary: Access-Control-Request-Method  
Vary: Access-Control-Request-Headers  
Content-Type: application/json;charset=UTF-8  
Content-Length: 5502  
X-Content-Type-Options: nosniff  
X-XSS-Protection: 1; mode=block  
Cache-Control: no-cache, no-store, max-age=0, must-revalidate  
Pragma: no-cache  
Expires: 0  
X-Frame-Options: DENY  
  
{  
  "product" : {  
    "productionUnit" : {  
      "name" : "Frais Caprices I",  
      "active" : true,  
      "id" : 1  
    },  
    "code" : "IMM",  
    "codeDes" : "Impérial Mix  En Seau Moyenne Format De 5 kg",  
    "siUnit" : {  
      "symbol" : "u",  
      "quantityName" : "quantité",  
      "name" : "unité",  
      "active" : true,  
      "id" : 1  
    },  
    "metaDataValues" : [ ],  
    "name" : "Impérial Mix 5 kg",  
    "packaging" : {  
      "name" : "seau en plastique",  
      "id" : 24  
    },  
    "id" : 2,  
    "classification" : {  
      "code" : "DFE",  
      "level" : 2,  
      "name" : "émulsifiants",  
      "active" : true,  
      "id" : 34  
    }  
  },  
}
```

```

    "productType" : {
      "name" : "Produits Finis",
      "icon" : "box",
      "id" : 1
    },
    "createDate" : "2020-01-01T01:00:00"
  },
  "formulaProducts" : [ {
    "product" : {
      "productionUnit" : {
        "name" : "Frais Caprices I",
        "active" : true,
        "id" : 1
      },
      "code" : "IMP",
      "modifyDate" : "2021-12-31T11:01:33",
      "codeDes" : "Impérial Mix En Seau Petite  Format De 15 kg",
      "siUnit" : {
        "symbol" : "kg",
        "quantityName" : "masse",
        "name" : "kilogramme",
        "active" : true,
        "id" : 2
      },
      "metaDataValues" : [ ],
      "name" : "Impérial Mix 15 kg",
      "packaging" : {
        "name" : "bidon de 5 kg de capacité",
        "id" : 2
      },
      "id" : 1,
      "classification" : {
        "code" : "CDP",
        "level" : 2,
        "name" : "crèmes de patisserie",
        "active" : true,
        "id" : 33
      },
      "productType" : {
        "name" : "Produits Finis",
        "icon" : "box",
        "id" : 1
      }
    },
    "quantity" : 10,
    "modifyDate" : "2022-03-19T08:39:27",
    "siUnit" : {
      "symbol" : "u",
      "quantityName" : "quantité",
      "name" : "unité",
      "active" : true,

```

```

    "id" : 1
  },
  "active" : false,
  "id" : 7430,
  "createDate" : "2022-03-19T08:39:27"
}, {
  "product" : {
    "productionUnit" : {
      "name" : "Frais Caprices I",
      "active" : true,
      "id" : 1
    },
    "code" : "IMP",
    "modifyDate" : "2021-12-31T11:01:33",
    "codeDes" : "Impérial Mix En Seau Petite  Format De 15 kg",
    "siUnit" : {
      "symbol" : "kg",
      "quantityName" : "masse",
      "name" : "kilogramme",
      "active" : true,
      "id" : 2
    },
    "metaDataValues" : [ ],
    "name" : "Impérial Mix 15 kg",
    "packaging" : {
      "name" : "bidon de 5 kg de capacité",
      "id" : 2
    },
    "id" : 1,
    "classification" : {
      "code" : "CDP",
      "level" : 2,
      "name" : "crèmes de patisserie",
      "active" : true,
      "id" : 33
    },
    "productType" : {
      "name" : "Produits Finis",
      "icon" : "box",
      "id" : 1
    }
  },
  "quantity" : 10,
  "modifyDate" : "2022-03-19T08:39:27",
  "siUnit" : {
    "symbol" : "kg",
    "quantityName" : "masse",
    "name" : "kilogramme",
    "active" : true,
    "id" : 2
  },

```

```

"active" : false,
"id" : 7431,
"createDate" : "2022-03-19T08:39:27"
}, {
  "product" : {
    "productionUnit" : {
      "name" : "Frais Caprices I",
      "active" : true,
      "id" : 1
    },
    "code" : "IMP",
    "modifyDate" : "2021-12-31T11:01:33",
    "codeDes" : "Impérial Mix En Seau Petite  Format De 15 kg",
    "siUnit" : {
      "symbol" : "kg",
      "quantityName" : "masse",
      "name" : "kilogramme",
      "active" : true,
      "id" : 2
    },
    "metaDataValues" : [ ],
    "name" : "Impérial Mix 15 kg",
    "packaging" : {
      "name" : "bidon de 5 kg de capacité",
      "id" : 2
    },
    "id" : 1,
    "classification" : {
      "code" : "CDP",
      "level" : 2,
      "name" : "crèmes de patisserie",
      "active" : true,
      "id" : 33
    },
    "productType" : {
      "name" : "Produits Finis",
      "icon" : "box",
      "id" : 1
    }
  },
  "quantity" : 10,
  "modifyDate" : "2022-03-19T08:39:27",
  "siUnit" : {
    "symbol" : "kg",
    "quantityName" : "masse",
    "name" : "kilogramme",
    "active" : true,
    "id" : 2
  },
  "active" : false,
  "id" : 7432,

```

```

    "createDate" : "2022-03-19T08:39:27"
  } ],
  "code" : "Formula code",
  "formulaNotes" : [ {
    "note" : {
      "color" : "#000000",
      "modifyDate" : "2022-03-19T08:39:27",
      "active" : true,
      "id" : 7427,
      "content" : "Hello Fayssal content",
      "createDate" : "2022-03-19T08:39:27"
    },
    "modifyDate" : "2022-03-19T08:39:27",
    "active" : true,
    "id" : 7426,
    "createDate" : "2022-03-19T08:39:27"
  }, {
    "note" : {
      "color" : "#000000",
      "modifyDate" : "2022-03-19T08:39:27",
      "active" : true,
      "id" : 7429,
      "content" : "Hello Fayssal content",
      "createDate" : "2022-03-19T08:39:27"
    },
    "modifyDate" : "2022-03-19T08:39:27",
    "active" : true,
    "id" : 7428,
    "createDate" : "2022-03-19T08:39:27"
  } ],
  "modifyDate" : "2022-03-19T08:39:27",
  "name" : "Formula name Test",
  "obsolete" : false,
  "active" : true,
  "id" : 7425,
  "createDate" : "2022-03-19T08:39:27"
}

```

update

request

```

PUT /api/product/formula/update HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 7630
Host: localhost:8080

{
  "id" : 7425,
  "code" : "Formula code",

```

```

"name" : "updateFormula",
"product" : {
  "id" : 2,
  "name" : "Impérial Mix 5 kg",
  "code" : "IMM",
  "codeDes" : "Impérial Mix  En Seau Moyenne Format De 5 kg",
  "classification" : {
    "id" : 34,
    "name" : "emulsifiants",
    "code" : "DFE",
    "level" : 2,
    "active" : true,
    "createDate" : null,
    "modifyDate" : null
  },
  "packaging" : {
    "id" : 24,
    "name" : "seau en plastique",
    "active" : true,
    "createDate" : null,
    "modifyDate" : null
  },
  "productionUnit" : {
    "id" : 1,
    "name" : "Frais Caprices I",
    "createDate" : null,
    "modifyDate" : null,
    "active" : true
  },
  "productType" : {
    "id" : 1,
    "name" : "Produits Finis",
    "active" : true,
    "icon" : "box",
    "metaData" : [ ],
    "createDate" : null,
    "modifyDate" : null
  },
  "siUnit" : {
    "id" : 1,
    "name" : "unité",
    "quantityName" : "quantité",
    "symbol" : "u",
    "active" : true,
    "createDate" : null,
    "modifyDate" : null
  },
  "description" : null,
  "active" : true,
  "metaDataValues" : [ ],
  "createDate" : 1577836800000,

```



```

    "modifyDate" : null
  },
  "formulaNotes" : [ {
    "id" : 7426,
    "note" : {
      "id" : 7427,
      "content" : "Hello Fayssal content",
      "color" : "#000000",
      "active" : true,
      "createDate" : 1647675568000,
      "modifyDate" : 1647675568000
    },
    "active" : true,
    "createDate" : 1647675568000,
    "modifyDate" : 1647675568000
  }, {
    "id" : 7428,
    "note" : {
      "id" : 7429,
      "content" : "Hello Fayssal content",
      "color" : "#000000",
      "active" : true,
      "createDate" : 1647675568000,
      "modifyDate" : 1647675568000
    },
    "active" : true,
    "createDate" : 1647675568000,
    "modifyDate" : 1647675568000
  }, {
    "id" : null,
    "note" : {
      "id" : null,
      "content" : "Hello Fayssal content updateFormula",
      "color" : "#000000",
      "active" : true,
      "createDate" : null,
      "modifyDate" : null
    },
    "active" : true,
    "createDate" : null,
    "modifyDate" : null
  } ],
  "formulaProducts" : [ {
    "id" : 7430,
    "product" : {
      "id" : 1,
      "name" : "Impérial Mix 15 kg",
      "code" : "IMP",
      "codeDes" : "Impérial Mix En Seau Petite Format De 15 kg",
      "classification" : {
        "id" : 33,

```

```

    "name" : "crèmes de patisserie",
    "code" : "CDP",
    "level" : 2,
    "active" : true,
    "createDate" : null,
    "modifyDate" : null
  },
  "packaging" : {
    "id" : 2,
    "name" : "bidon de 5 kg de capacité",
    "active" : true,
    "createDate" : null,
    "modifyDate" : null
  },
  "productionUnit" : {
    "id" : 1,
    "name" : "Frais Caprices I",
    "createDate" : null,
    "modifyDate" : null,
    "active" : true
  },
  "productType" : {
    "id" : 1,
    "name" : "Produits Finis",
    "active" : true,
    "icon" : "box",
    "metaData" : [ ],
    "createDate" : null,
    "modifyDate" : null
  },
  "siUnit" : {
    "id" : 2,
    "name" : "kilogramme",
    "quantityName" : "masse",
    "symbol" : "kg",
    "active" : true,
    "createDate" : null,
    "modifyDate" : null
  },
  "description" : null,
  "active" : false,
  "metaDataValues" : [ ],
  "createDate" : null,
  "modifyDate" : 1640944893000
},
"siUnit" : {
  "id" : 1,
  "name" : "unité",
  "quantityName" : "quantité",
  "symbol" : "u",
  "active" : true,

```

```

    "createDate" : null,
    "modifyDate" : null
  },
  "active" : false,
  "createDate" : 1647675568000,
  "modifyDate" : 1647675568000,
  "quantity" : 10.0
}, {
  "id" : 7431,
  "product" : {
    "id" : 1,
    "name" : "Impérial Mix 15 kg",
    "code" : "IMP",
    "codeDes" : "Impérial Mix En Seau Petite Format De 15 kg",
    "classification" : {
      "id" : 33,
      "name" : "crèmes de patisserie",
      "code" : "CDP",
      "level" : 2,
      "active" : true,
      "createDate" : null,
      "modifyDate" : null
    },
    "packaging" : {
      "id" : 2,
      "name" : "bidon de 5 kg de capacité",
      "active" : true,
      "createDate" : null,
      "modifyDate" : null
    },
    "productionUnit" : {
      "id" : 1,
      "name" : "Frais Caprices I",
      "createDate" : null,
      "modifyDate" : null,
      "active" : true
    },
    "productType" : {
      "id" : 1,
      "name" : "Produits Finis",
      "active" : true,
      "icon" : "box",
      "metaData" : [ ],
      "createDate" : null,
      "modifyDate" : null
    },
    "siUnit" : {
      "id" : 2,
      "name" : "kilogramme",
      "quantityName" : "masse",
      "symbol" : "kg",

```

```

    "active" : true,
    "createDate" : null,
    "modifyDate" : null
  },
  "description" : null,
  "active" : false,
  "metaDataValues" : [ ],
  "createDate" : null,
  "modifyDate" : 1640944893000
},
"siUnit" : {
  "id" : 2,
  "name" : "kilogramme",
  "quantityName" : "masse",
  "symbol" : "kg",
  "active" : true,
  "createDate" : null,
  "modifyDate" : null
},
"active" : false,
"createDate" : 1647675568000,
"modifyDate" : 1647675568000,
"quantity" : 10.0
}, {
  "id" : 7432,
  "product" : {
    "id" : 1,
    "name" : "Impérial Mix 15 kg",
    "code" : "IMP",
    "codeDes" : "Impérial Mix En Seau Petite Format De 15 kg",
    "classification" : {
      "id" : 33,
      "name" : "crèmes de patisserie",
      "code" : "CDP",
      "level" : 2,
      "active" : true,
      "createDate" : null,
      "modifyDate" : null
    },
    "packaging" : {
      "id" : 2,
      "name" : "bidon de 5 kg de capacité",
      "active" : true,
      "createDate" : null,
      "modifyDate" : null
    },
    "productionUnit" : {
      "id" : 1,
      "name" : "Frais Caprices I",
      "createDate" : null,
      "modifyDate" : null,

```

```

    "active" : true
  },
  "productType" : {
    "id" : 1,
    "name" : "Produits Finis",
    "active" : true,
    "icon" : "box",
    "metaData" : [ ],
    "createDate" : null,
    "modifyDate" : null
  },
  "siUnit" : {
    "id" : 2,
    "name" : "kilogramme",
    "quantityName" : "masse",
    "symbol" : "kg",
    "active" : true,
    "createDate" : null,
    "modifyDate" : null
  },
  "description" : null,
  "active" : false,
  "metaDataValues" : [ ],
  "createDate" : null,
  "modifyDate" : 1640944893000
},
"siUnit" : {
  "id" : 2,
  "name" : "kilogramme",
  "quantityName" : "masse",
  "symbol" : "kg",
  "active" : true,
  "createDate" : null,
  "modifyDate" : null
},
"active" : false,
"createDate" : 1647675568000,
"modifyDate" : 1647675568000,
"quantity" : 10.0
} ],
"active" : true,
"createDate" : 1647675568000,
"modifyDate" : 1647675568000,
"obsolete" : false
}

```

response

```

HTTP/1.1 200 OK
Vary: Origin
Vary: Access-Control-Request-Method

```

Vary: Access-Control-Request-Headers
Content-Type: application/json;charset=UTF-8
Content-Length: 7357
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY

```
{
  "product" : {
    "productionUnit" : {
      "name" : "Frais Caprices I",
      "active" : true,
      "id" : 1
    },
    "code" : "IMM",
    "codeDes" : "Impérial Mix  En Seau Moyenne Format De 5 kg",
    "siUnit" : {
      "symbol" : "u",
      "quantityName" : "quantité",
      "name" : "unité",
      "active" : true,
      "id" : 1
    },
    "metaDataValues" : [ ],
    "name" : "Impérial Mix 5 kg",
    "packaging" : {
      "name" : "seau en plastique",
      "id" : 24
    },
    "id" : 2,
    "classification" : {
      "parent" : {
        "parent" : {
          "code" : "GIP",
          "level" : 0,
          "name" : "intrants pâtisseries",
          "active" : true,
          "id" : 2
        },
        "code" : "FF",
        "level" : 1,
        "name" : "fourrage",
        "active" : true,
        "id" : 13
      },
      "code" : "DFE",
      "level" : 2,
      "children" : [ ],

```

```

    "name" : "emulsifiants",
    "active" : true,
    "id" : 34
  },
  "productType" : {
    "name" : "Produits Finis",
    "icon" : "box",
    "id" : 1
  },
  "createDate" : "2020-01-01T01:00:00"
},
"formulaProducts" : [ {
  "product" : {
    "productionUnit" : {
      "name" : "Frais Caprices I",
      "active" : true,
      "id" : 1
    },
    "code" : "IMP",
    "modifyDate" : "2021-12-31T11:01:33",
    "codeDes" : "Impérial Mix En Seau Petite  Format De 15 kg",
    "siUnit" : {
      "symbol" : "kg",
      "quantityName" : "masse",
      "name" : "kilogramme",
      "active" : true,
      "id" : 2
    },
    "metaDataValues" : [ ],
    "name" : "Impérial Mix 15 kg",
    "packaging" : {
      "name" : "bidon de 5 kg de capacité",
      "id" : 2
    },
    "id" : 1,
    "classification" : {
      "parent" : {
        "parent" : {
          "code" : "GC",
          "level" : 0,
          "name" : "crèmes",
          "active" : true,
          "id" : 1
        },
        "code" : "FCF",
        "level" : 1,
        "name" : "crèmes froides",
        "active" : true,
        "id" : 10
      },
      "code" : "CDP",

```

```

    "level" : 2,
    "children" : [ ],
    "name" : "crèmes de patisserie",
    "active" : true,
    "id" : 33
  },
  "productType" : {
    "name" : "Produits Finis",
    "icon" : "box",
    "id" : 1
  }
},
"quantity" : 10,
"modifyDate" : "2022-03-19T08:39:28",
"siUnit" : {
  "symbol" : "u",
  "quantityName" : "quantité",
  "name" : "unité",
  "active" : true,
  "id" : 1
},
"active" : false,
"id" : 7430,
"createDate" : "2022-03-19T08:39:28"
}, {
  "product" : {
    "productionUnit" : {
      "name" : "Frais Caprices I",
      "active" : true,
      "id" : 1
    },
    "code" : "IMP",
    "modifyDate" : "2021-12-31T11:01:33",
    "codeDes" : "Impérial Mix En Seau Petite Format De 15 kg",
    "siUnit" : {
      "symbol" : "kg",
      "quantityName" : "masse",
      "name" : "kilogramme",
      "active" : true,
      "id" : 2
    },
    "metaDataValues" : [ ],
    "name" : "Impérial Mix 15 kg",
    "packaging" : {
      "name" : "bidon de 5 kg de capacité",
      "id" : 2
    },
    "id" : 1,
    "classification" : {
      "parent" : {
        "parent" : {

```



```

        "code" : "GC",
        "level" : 0,
        "name" : "crèmes",
        "active" : true,
        "id" : 1
    },
    "code" : "FCF",
    "level" : 1,
    "name" : "crèmes froides",
    "active" : true,
    "id" : 10
},
"code" : "CDP",
"level" : 2,
"children" : [ ],
"name" : "crèmes de patisserie",
"active" : true,
"id" : 33
},
"productType" : {
    "name" : "Produits Finis",
    "icon" : "box",
    "id" : 1
}
},
"quantity" : 10,
"modifyDate" : "2022-03-19T08:39:28",
"siUnit" : {
    "symbol" : "kg",
    "quantityName" : "masse",
    "name" : "kilogramme",
    "active" : true,
    "id" : 2
},
"active" : false,
"id" : 7431,
"createDate" : "2022-03-19T08:39:28"
}, {
    "product" : {
        "productionUnit" : {
            "name" : "Frais Caprices I",
            "active" : true,
            "id" : 1
        },
        "code" : "IMP",
        "modifyDate" : "2021-12-31T11:01:33",
        "codeDes" : "Impérial Mix En Seau Petite Format De 15 kg",
        "siUnit" : {
            "symbol" : "kg",
            "quantityName" : "masse",
            "name" : "kilogramme",

```

```

    "active" : true,
    "id" : 2
  },
  "metaDataValues" : [ ],
  "name" : "Impérial Mix 15 kg",
  "packaging" : {
    "name" : "bidon de 5 kg de capacité",
    "id" : 2
  },
  "id" : 1,
  "classification" : {
    "parent" : {
      "parent" : {
        "code" : "GC",
        "level" : 0,
        "name" : "crèmes",
        "active" : true,
        "id" : 1
      },
      "code" : "FCF",
      "level" : 1,
      "name" : "crèmes froides",
      "active" : true,
      "id" : 10
    },
    "code" : "CDP",
    "level" : 2,
    "children" : [ ],
    "name" : "crèmes de patisserie",
    "active" : true,
    "id" : 33
  },
  "productType" : {
    "name" : "Produits Finis",
    "icon" : "box",
    "id" : 1
  }
},
"quantity" : 10,
"modifyDate" : "2022-03-19T08:39:28",
"siUnit" : {
  "symbol" : "kg",
  "quantityName" : "masse",
  "name" : "kilogramme",
  "active" : true,
  "id" : 2
},
"active" : false,
"id" : 7432,
"createDate" : "2022-03-19T08:39:28"
} ],

```

```

"code" : "Formula code",
"formulaNotes" : [ {
  "note" : {
    "color" : "#000000",
    "modifyDate" : "2022-03-19T08:39:28",
    "active" : true,
    "id" : 7427,
    "content" : "Hello Fayssal content",
    "createDate" : "2022-03-19T08:39:28"
  },
  "modifyDate" : "2022-03-19T08:39:28",
  "active" : true,
  "id" : 7426,
  "createDate" : "2022-03-19T08:39:28"
}, {
  "note" : {
    "color" : "#000000",
    "modifyDate" : "2022-03-19T08:39:28",
    "active" : true,
    "id" : 7429,
    "content" : "Hello Fayssal content",
    "createDate" : "2022-03-19T08:39:28"
  },
  "modifyDate" : "2022-03-19T08:39:28",
  "active" : true,
  "id" : 7428,
  "createDate" : "2022-03-19T08:39:28"
}, {
  "note" : {
    "color" : "#000000",
    "modifyDate" : "2022-03-19T08:39:28",
    "active" : true,
    "id" : 7433,
    "content" : "Hello Fayssal content updateFormula",
    "createDate" : "2022-03-19T08:39:28"
  },
  "modifyDate" : "2022-03-19T08:39:28",
  "active" : true,
  "id" : 7434,
  "createDate" : "2022-03-19T08:39:28"
} ],
"modifyDate" : "2022-03-19T08:39:28",
"name" : "updateFormula",
"obsolete" : false,
"active" : true,
"id" : 7425,
"createDate" : "2022-03-19T08:39:28"
}

```

delete

request

```
DELETE /api/product/formula/delete/7415 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

response

```
HTTP/1.1 200 OK
Vary: Origin
Vary: Access-Control-Request-Method
Vary: Access-Control-Request-Headers
Content-Type: application/json;charset=UTF-8
Content-Length: 1814
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY

{
  "product" : {
    "productionUnit" : {
      "name" : "Frais Caprices I",
      "active" : true,
      "id" : 1
    },
    "code" : "IMM",
    "codeDes" : "Impérial Mix  En Seau Moyenne Format De 5 kg",
    "siUnit" : {
      "symbol" : "u",
      "quantityName" : "quantité",
      "name" : "unité",
      "active" : true,
      "id" : 1
    },
    "metaDataValues" : [ ],
    "name" : "Impérial Mix 5 kg",
    "packaging" : {
      "name" : "seau en plastique",
      "id" : 24
    },
    "id" : 2,
    "classification" : {
      "parent" : {
        "parent" : {
          "code" : "GIP",
```

```

        "level" : 0,
        "name" : "intrants pâtissiers",
        "active" : true,
        "id" : 2
    },
    "code" : "FF",
    "level" : 1,
    "name" : "fourrage",
    "active" : true,
    "id" : 13
},
"code" : "DFE",
"level" : 2,
"children" : [ ],
"name" : "émulsifiants",
"active" : true,
"id" : 34
},
"productType" : {
    "name" : "Produits Finis",
    "icon" : "box",
    "id" : 1
},
"createDate" : "2020-01-01T01:00:00"
},
"formulaProducts" : [ ],
"code" : "Formula code",
"formulaNotes" : [ {
    "note" : {
        "color" : "#000000",
        "modifyDate" : "2022-03-19T08:38:40",
        "active" : true,
        "id" : 7423,
        "content" : "Hello Fayssal content updateFormula",
        "createDate" : "2022-03-19T08:38:40"
    },
    "modifyDate" : "2022-03-19T08:38:40",
    "active" : true,
    "id" : 7424,
    "createDate" : "2022-03-19T08:38:40"
} ],
"modifyDate" : "2022-03-19T08:39:26",
"name" : "updateFormula",
"obsolete" : false,
"active" : false,
"id" : 7415,
"createDate" : "2022-03-19T08:38:40"
}

```